

Alameda-Contra Costa Transit District

March 28, 2006

Mr. Amir Gholani
Alameda County Health Division
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

Dear Mr. Amir:

Subject:

Quarterly Groundwater Monitoring Report - November 2005 Sampling

AC Transit, 1177 47th Street, Emeryville

AC Transit hereby submits the enclosed Groundwater Monitoring Report for the AC Transit facility located at 1177 47<sup>th</sup> Street in Emeryville. This report was prepared by our consultant, Essel Technology Services, Inc, and contain the results of the November 2005 sampling event.

The quarterly groundwater monitoring involved collecting groundwater samples from 15 on-site monitoring wells and measuring depth to water in all monitoring wells. These samples were analyzed for total petroleum hydrocarbons (TPH) using modified EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) using EPA Method 8021B. TPH as diesel-range hydrocarbons were detected in 13 of the 15 wells sampled with the highest concentrations detected in wells W-1 at 2400 ppb and MW-6 at 2000 ppb. TPH as gasoline-range hydrocarbons was detected in six of the 15 wells sampled with the highest concentration in wells W-1 at 6200 ppb and MW-6 at 750 ppb. MTBE, ethylbenzene, toluene, and xylenes were detected in wells W-1 and MW-6 at concentrations ranging from 1.9 to 20 ppb.

If you have any questions or comments regarding the enclosed report, please call me at (510) 577-8869.

Sincerely,

Suzanhe Chaewsky, P.E.

Environmental Engineer

enclosure

# GROUND-WATER MONITORING IN NOVEMBER 2005 ALAMEDA CONTRA COSTA TRANSIT DISTRICT FACILITY 1177 47<sup>TH</sup> STREET EMERYVILLE, CALIFORNIA

Prepared for

Alameda-Contra Costa Transit District 10626 International Boulevard Oakland, California 94603

Prepared by

Essel Technology Services, Inc. 9778 Broadmoor Drive San Ramon, California 94583 (925) 833-7977

Project No.

January 2006

## **Essel Technology Services, Inc.**

1305 Franklin Street # 200, Oakland, California 94512 • Tel: 925/833-7991, 510/206-0270 • Fax: 925/833-7977

EsselTekServices@aol.com

March 5, 2006

Ms. Suzanne Chaewsky AC Transit District 10626 International Blvd Oakland, CA 94603

Re:

FINAL REPORT

Quarterly Groundwater Monitoring Report – November 2005 Sampling AC Transit 1177 47<sup>th</sup> Street, Emeryville, California

Dear Ms. Chaewsky:

ETS is pleased to submit this final report for quarterly groundwater monitoring sampling event for the above site.

ETS carried out groundwater sampling on November 2 and November 3, 2005 of sixteen monitoring wells (MW 1 through MW 13 and W 1 through W 4) in accordance with the Contract requirement.

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If you have any questions feel free to give us a call.

Sincerely,

Samhita Lahiri Principal

Attachment: 1 additional copy

GROUND-WATER MONITORING
IN
NOVEMBER 2005
ALAMEDA CONTRA COSTA
TRANSIT DISTRICT FACILITY
1177 47<sup>TH</sup> STREET
EMERYVILLE, CALIFORNIA

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## GROUND-WATER MONITORING IN NOVEMBER 2005 ALAMEDA CONTRA COSTA TRANSIT DISTRICT FACILITY 1177 47<sup>TR</sup> STREET EMERYVILLE, CALIFORNIA

## 1.0 INTRODUCTION

The Alameda Contra Costa Transit District (AC Transit) has contracted with Essel Technology Services, Inc. (Essel Tech) to perform ground-water monitoring and sampling at the AC Transit Division 2 facility in Emeryville, California. This report presents the results of monitoring and sampling performed in November 2005.

## 1.1 Site Location and Description

The Division 2 facility is located at 1177 47th Street in Emeryville, California and occupies nearly the entire city block that is bounded by 47th Street on the north, 45th Street on the south, San Pablo on the east, and Doyle Street on the west, as shown on Plate 1. The facility is used for storage and maintenance of AC Transit buses. The primary site feature is a maintenance building that is located in the southwestern portion of the site. Other facilities include a parking garage, a transportation building, and a bus washing structure that are located along the northern property line adjacent to 47th Street; and a tire building, an emergency generator building, a pump station, and storm water treatment facilities that are located at the western edge of the site next to Doyle Street. The site also contains underground storage tanks (USTs). One group of USTs, referred to as Tank Farm No. 1, is located near the northeastern corner of the property and just south of fuel dispenser islands. A second group of USTs, referred to as Tank Farm No. 2 was located near the center of the property and a short distance east of the present maintenance building. These tanks were removed in 1999. A 550-gallon UST also is located next to the southern side of the emergency generator building.

Sixteen wells used for ground-water monitoring are presently installed at the site. Thirteen of the wells (MW-1 through MW-10, MW-12, MW-13, and W-4) are spaced across the northern half of the site and monitor the ground water near and to the west (approximately downgradient) of Tank Farm No 1 and the fuel dispenser islands. Well MW-12 also serves to monitor the ground water at a location northwest of the 550-gallon UST that provides fuel for the emergency generator. Three of the 16 wells are located in the southeastern quadrant of the property. Well M-3 is at the eastern edge of the property at a location that is upgradient of Tank Farm No. 1, well W-1 is located approximately 220 feet south of Tank Farm No. 1, and MW-11 is near the southwestern corner of Tank Farm No. 2. Three additional wells, that are not part of the ground-water-monitoring program, are located adjacent to Tank Farm No. 1. These wells are referred to as E-1,

Essel Technology Services, Inc.

E-2, and E-5. Plate 2 is a Site Plan that shows the relative locations of the AC Transit facilities, the 16 ground-water-monitoring wells, and the three additional wells.

## 2.0 FIELD AND LABORATORY WORK

## 2.1 Field Procedures

Essel Tech personnel visited the site on November 2 and 3, 2005 to measure the water level in wells MW-1 through MW-13 and W-1, W-3, and W-4, to measure the thickness of free petroleum product in the wells, and to purge the wells for ground-water sampling. The depth to free-phase product and to the static ground-water surface in each well were measured to the nearest 0.01-foot using an electronic oil-water interface probe. Following water-level measurements, 15 of the 16 wells were purged of water using a submersible pump and discharge hose. Approximately three casing volumes of water were pumped from each well. Well MW-13 was not purged for sampling because of the presence of free-phase product. Field measurements of temperature, pH, electrical conductivity, dissolved oxygen, oxygen reduction potential, and ferrous iron were monitored during pumping. Measurements were recorded on field well-development and sampling forms, which are included in Appendix A.

To minimize the potential for inadvertently introducing contaminants, wells were purged in order from least contaminated to most contaminated using the analytical results from the previous monitoring event. In addition, the purge pump and attached discharge hose were cleaned before use in each well by washing the equipment in a soap solution followed by rinsing twice with clean tap water. Discharge water from well purging was directed into 55-gallon drums, which were then emptied into the maintenance building steam bay.

Essel Tech personnel collected water samples from the 15 wells on November 3, 2005. A clean, disposable polyethylene bailer was lowered through the air-water interface in each well and retrieved to collect the samples. The retrieved water samples were then slowly transferred from the bailer to clean, 40-milliliter volatile organic analysis (VOA) glass vials containing hydrochloric acid as a preservative; to clean, 1-liter brown glass liter bottles containing sulfuric acid as a preservative; and to clean, 1-liter plastic bottles. The various containers were filled completely to eliminate air bubbles, sealed with caps, labeled, and placed in ice storage for transport to an analytical laboratory.

## 2.2 Laboratory Analyses

Essel Tech personnel prepared Chain-of-Custody forms for the ground-water samples collected and these forms accompanied the samples to the laboratory. Copies of the Chain-of-Custody forms are included in Appendix B. The water samples were delivered to McCampbell Analytical, Inc. (McCampbell) in Pacheco, California for analysis. McCampbell analyzed the samples for total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd) using Environmental Protection Agency (EPA) modified Method 8015, for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8260, and for nitrate (as nitrogen) and sulfate using EPA Method 300.1.

Essel Technology Services, Inc.

## 3.0 RESULTS OF MONITORING AND SAMPLING

## 3.1 Ground-Water Monitoring

The measured depths to the static ground-water surface in wells MW-1 through MW-13 and W-1, W-3, and W-4 ranged from 4.21 to 10.76 feet below the tops of the well casings on November 2, 2005. A measurable amount (0.063-foot) of free-phase petroleum product was found in well MW-2. Essel Tech used wellhead elevation data and depth-to-water measurements made on November 2, 2005 to calculate the elevation of the ground-water surface in the wells. The elevation of the ground-water surface ranged from 29.22 feet to 13.67 feet above mean sea level. Based on the range of elevations, ground water is estimated to flow toward the west-southwest at a gradient of 0.022 (2.2 feet vertical distance per 100 feet horizontal distance). Table 1 presents data on product thickness, depth to ground water, and ground-water elevation for the 16 wells. Plate 3 is a contour map of the shallow ground-water surface interpreted from water-level data collected on November 2, 2005.

## 3.2 Laboratory Analyses

Results of laboratory analyses show gasoline-range hydrocarbons (i.e., TPHg) were detected in six of the 15 wells sampled. The highest concentrations were detected in water samples from wells W-1 (6,200 parts per billion [ppb]) and MW-6 (750 ppb). These wells are located approximately 220 feet south and 140 feet southwest, respectively, of Tank Farm No. 1. Gasoline-range hydrocarbons were also detected in water samples from wells MW-7 (310 ppb), MW-8 (150 ppb), MW-10 (300 ppb) and MW-12 (440 ppb). These wells are from 120 to 400 feet west of well MW-6. No TPHg was detected in samples from wells MW-1 through MW-5, located in the vicinity of Tank Farm No. 1 and the fuel dispenser islands. Total petroleum hydrocarbons as gasoline also were not detected in samples from well MW-9, located in the north-central portion of the site; well MW-11 at Tank Farm No. 2; upgradient well W-3, located at the eastern edge of the site; or W-4, located approximately 100 feet southwest of Tank Farm No. 1.

Diesel-range hydrocarbons (i.e., TPHd) were detected in 13 of the 15 wells sampled. As with TPHg, the highest concentrations were detected in wells W-1 (2,400 ppb) and MW-6 (2,000 ppb). A concentration of 1,500 ppb TPHd was found in the water sample from well MW-5, located approximately 50 feet west of Tank Farm No. 1. In other wells, concentrations of TPHd ranged from 66 ppb (well W-4) to 600 ppb (well MW-10). No TPHd was detected in samples from well MW-4, located just south of Tank Farm No. 1 or upgradient well W-3.

The aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in wells W-1 and MW-6, which contained the highest concentrations of TPHg and TPHd. The detected concentrations of BTEX, however, are relatively low and range from 1.9 to 20 ppb. No BTEX was detected in samples from the 13 other wells. The fuel oxygenate, methyl tertiary butyl ether (MTBE), was detected in 14 of the 15 wells sampled, but at trace to low concentrations of 0.69-ppb (well MW-8) to 6.6 ppb (well MW-12). No MTBE was detected in the water sample from well MW-11, located adjacent to Tank Farm No. 2. Table 2 presents the results of analyses of water samples from the 15 wells and Appendix B contains copies of the laboratory reports of analyses.

CERTIFIED ENGINEERING GEOLOGIST

Essel Technology Services, Inc.

## 4.0 RECOMMENDATIONS

Essel Tech recommends that ground-water monitoring and sampling continue on a quarterly basis. The next sampling event should be scheduled for February 2006 and would include measuring depth to water and product thickness in the 16 ground-water-monitoring wells and purging and sampling wells MW-11, MW-12, and MW-13 for laboratory analysis.

Essel Tech recommends that water samples be analyzed for the same compounds for which analyses were performed during the November 2005 sampling event. Essel Tech, however, recommends that EPA Method 8020 (gas chromatography) be used for the analysis for BTEX and MTBE instead of EPA Method 8260 (gas chromatography followed by confirmation with mass spectrometry). Analysis of the November 2005 samples using EPA Method 8260 has confirmed the presence or absence of MTBE in site wells. Using EPA Method 8020 in future analyses would be sufficient for the detection of MTBE.

Please call if you have any questions.

Sincerely;

Essel Technology Services, Inc.

Samhita Lahiri Project Manager

Rodger C. Witham, P.G., C.E.G

Senior Hydrogeologist

Table 1: Well Monitoring Data

Table 2: Results of Laboratory Analyses of Ground-Water Samples

Plate 1: Site Vicinity Map

Plate 2: Site Plan

Plate 3: Ground-Water-Surface Map

Appendix A: Well Development and Sampling Forms

Appendix B: Chain-of-Custody Forms and Laboratory Reports

## **TABLE 1 WELL MONITORING DATA Alameda Contra Costa Transit District Facility** 1177 47th Street, Emeryville, California

Well Number	Date	Top of Casing	Product Thickness	Depth to Ground Water	Ground-Water- Surface Elevation	Ground-Water-Surface Elevation Corrected for Product Thickness#
MW-1	11/02/05	32.56	0.00	5.14	27.42	27.42
MW-2	11/02/05	32.12	0.00	4.65	27.47	27.47
MW-3	11/02/05	34.06	0.00	6.21	27.85	27.85
MW-4	11/02/05	34.11	0.00	6.30	27.81	27.81
MW-5	11/02/05	31.70	0.00	4.55	27.15	27.15
MW-6	11/02/05	31.02	0.00	4.21	26.81	26.81
MW-7	11/02/05	29.62	0.00	5.50	24.12	24.12
MW-8	11/02/05	29.43	0.00	5.05	24.38	24.38
MW-9	11/02/05	29.18	0.00	4.26	24.92	24.92
MW-10	11/02/05	29.13	0.00	9.81	19.32	19.32
MW-11	11/02/05	29.93	0.00	4.30	25.63	25.63
MW-12	11/02/05	28.68	0.00	10.76	17.92°	17.92
MW-13	11/02/05	22.72	0,063	9.10	13.62	13.67
W-1	11/02/05	33.43	0.00	6.59	26.84	26.84
W-3	11/02/05	37.46	0.00	8.24	29.22	29.22
W-4	11/02/05	31.72	0.00	4.70	27.02	27.02

Top of casing in feet above mean sea level.

Product thickness in feet.

Depth to ground water in feet below the top of the well casing.

Ground-water surface elevation in feet above mean sea level.

#Multiply product thickness by specific gravity of 0.8 and subtract from top of casing elevation.

## TABLE 2 RESULTS OF LABORATORY ANALYSES OF GROUND-WATER SAMPLES Alameda Contra Costa Transit District Facility

1177 47th Street, Emeryville, California

Well	Date	<del></del>					Ethyl-	Total				Dissolved	Ferrous
No.	Sampled	TPHg	TPHd	TPH	Benzene	Toluene	benzene	Xylenes	MTBE	Nitrate	Sulfate	Oxygen	Iron
MW-1	11/03/05	<50	70	NA	<0.5	<0.5	<0.5	<0.5	4.5	<100	56,000	2,330	0
MW-2	11/03/05	<50	110	NA	<0.5	<0.5	<0.5	<0.5	4.9	430	53,000	2,090	130
MW-3	11/03/05	<50	180	NA	<0.5	<0.5	<0.5	<0.5	3.2	3,500	67,000	1,850	0
MW-4	11/03/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	4.1	3,500	67,000	1,860	60
MW-5	11/03/05	<50	1,500	NA	<0.5	<0.5	<0.5	<0.5	5.7	<100	62,000	1,930	150
MW-6	11/03/05	750	2,000	NA	13	1.9	2.9	4.6	1,4	<100	16,000	1,570	3,300
MW-7	11/03/05	310	140	NA	<0.5	<0.5	<0.5	<0.5	2.3	<100	3,100	3,190	30
MW-8	11/03/05	150	280	NA	<0.5	<0.5	<0.5	<0.5	0.69	<100	24,000	1,630	860
MW-9	11/03/05	<50	470	NA	<0.5	<0.5	<0.5	<0.5	4.8	110	28,000	1,720	450
MW-10	11/03/05	300	600	NA	<0.5	<0.5	<0.5	<0.5	4.1	<100	780	2,350	2,670
MVV-11	11/03/05	<50	290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<100	21,000	1,360	0
MW-12	11/03/05	440	120	NA	<0.5	<0.5	<0.5	<0.5	6.6	<100	3,700	1,700	740
MVV-13	11/03/05					Not sa	mpled - free-pi	nase product in	well				
<b>W</b> -1	11/03/05	6,200	2,400	NA	7.2	3.6	5.7	20	0.73	140	1,300	1,230	3,300
W-3	11/03/05	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	1.2	3,700	51,000	2,170	0
W-4	11/03/05	<50	66	NA	<0.5	<0.5	<0.5	<0.5	2.0	<100	32,000	1,620	970

Results in micrograms per liter = parts per billion; detectable results are shaded.

TPHg = total petroleum hydrocarbons as gasoline

TPHd = total petroleum hydrocarbons as diesel

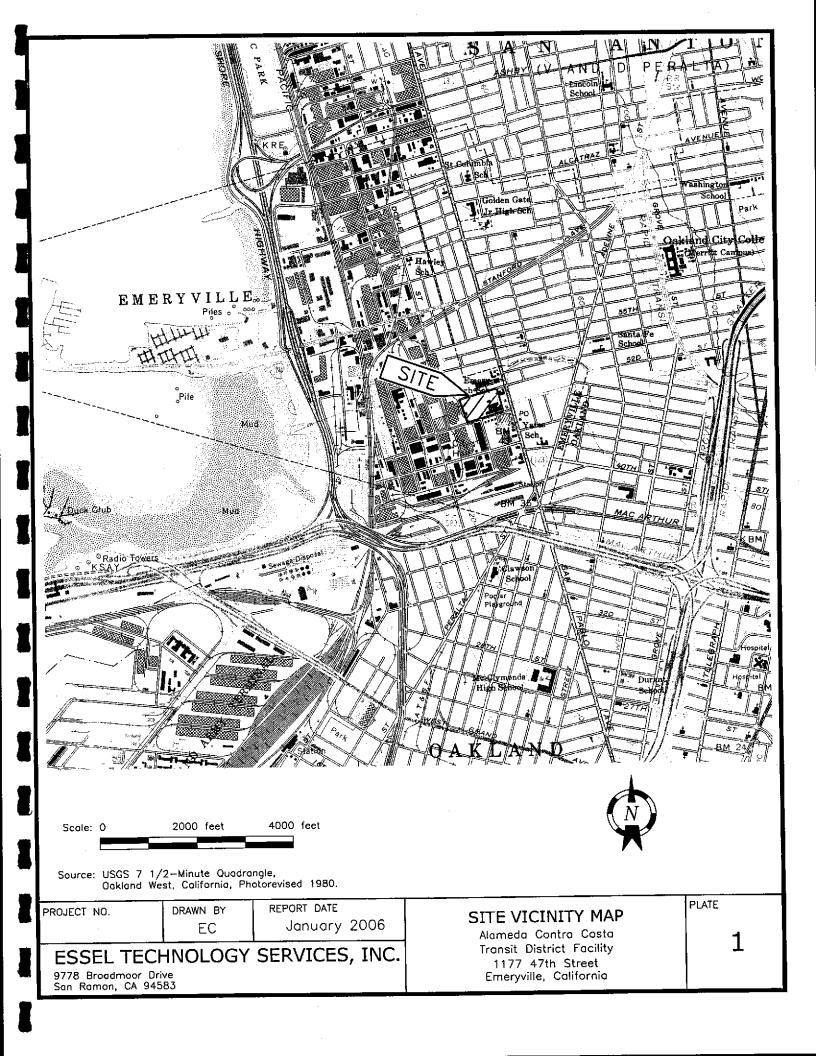
TPH = total petroleum hydrocarbons as motor oil or unknown hydrocarbon

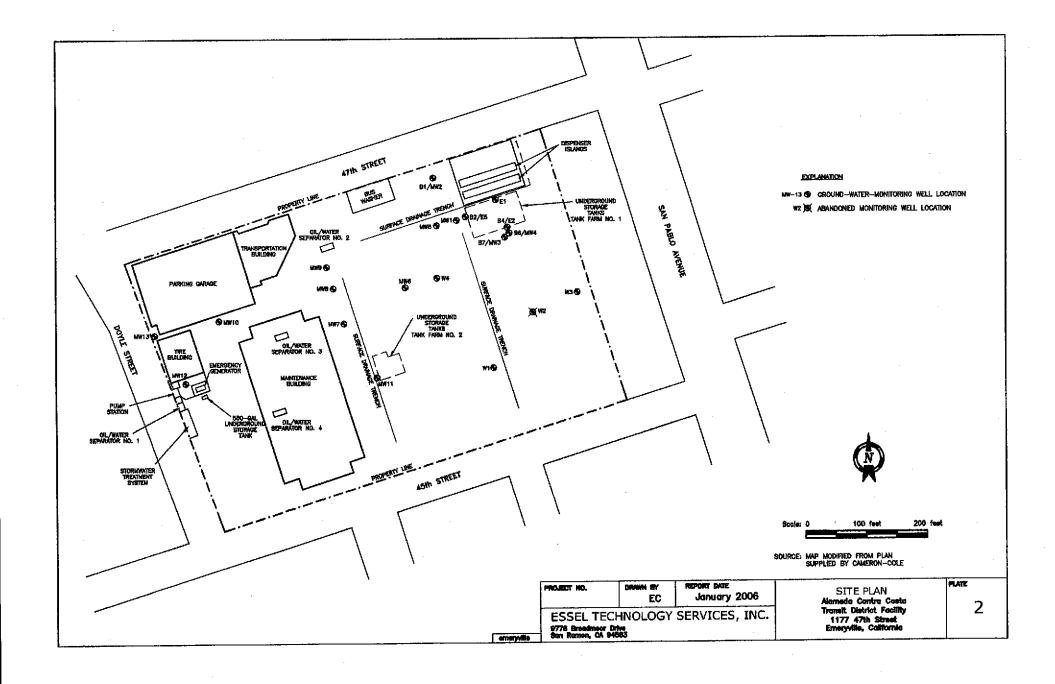
MTBE = methyl tertiary butyl ether

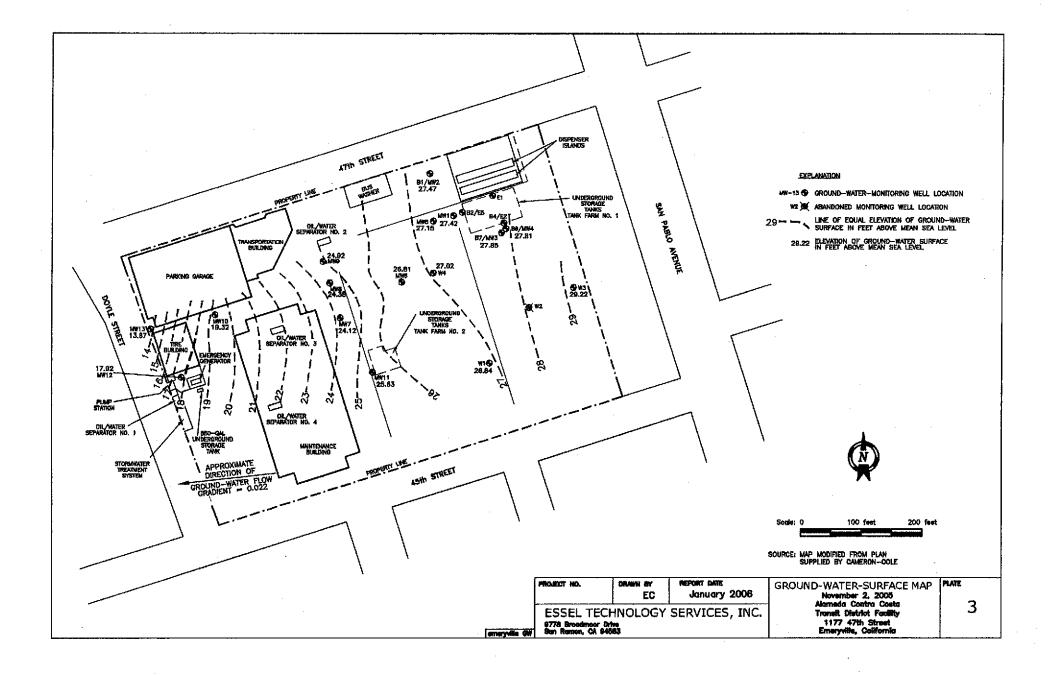
MCL = maximum contaminant level

NA = not analyzed

< = less than the laboratory method detection limit







## APPENDIX A

WELL DEVELOPMENT AND SAMPLING FORMS

## Well Development and Sampling Form

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Well Development and Sampling Form ACTENSIT WELL WATER NOWTOKING Name Enterviet Site Well Number 10 - 3 b Number 050/2 Date Nov. 2, 2005 Sample By DIE STORTE Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ X] 4-inch [ ] Other \_\_\_ [ ] Swab [ ] Surge Other Total depth (TD) of casing in feet 14-6 [ ] Bail Bailer Type: \_\_\_\_ Purge Volume Calculation [ ] Pump  $14^{2}6^{2}$  621) x 3 x 17 = 4.23 gallons Pump Type: [X] Submersible [X] Centrifuge [ ] Bladder [ ] Other - DTW x V x F = purge volume Explanation For 2" diameter well:  $V = \mathcal{S}, F = 0.17$  gallon/foot 0:5 gy Min V= well volume 4" diameter well: V = 3, F+ 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature Gallons pumped 02 PTurbidity O pН a.m. [ ] p.m. [ 🔏 Microhos/centimeter [X]°C [ ]°F Start 6186 12-135 650 24 32 1.85 12-20 F 12-227 6.13 670 26 8.9 12.24 6.54 663 15 240 12-28. Total Gallons Pumped Observations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [ > ] Other Steam But (D) Site Sampling Date: Nov 2, 2005 Time:

Well Development and Sampling Form AC TRUSIT WELL WATER Job Name NowITORING / EMERY VICE SITE Well Number 1 W 4 b Number 0569/2. Date Nov 2, 2005 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other\_\_\_ [ ] Swab [ ] Surge Other optal depth (TD) of casing in feet 15-0" [ ] Bail Bailer Type: \_\_\_\_ Depth to water (DTW) in feet 6:3

Purge Volume Calculation Pump Pump Type: [ ] Submersible [ ] Centrifuge 87 x 3 x 0.17 = 4.4 gallons [ ] Bladder [ ] Other - DTW x V x F = purge volume Explanation = Car/Min. For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V =3, F+ 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature Of furbidity Federallons pumped pН a.m. [ ] p.m. [ 🕅 ] Microhos/centimeter [%]°C[]°F Start 12:02 7:47 200 649 1.86 16 1 162 646 205 7.36 158 b 2 12107 647 22016. 7/32 156 3 12.11 云20. 5 GB Temi Gallons Pumped Observations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [ ] Other Sterm By & Size. Sampling Date: Nov 2, 200 5

Well Development and Sampling Form AC TRANSIT WELL WATER Job Name Nowito LING / ENERY VICE SITE Well Number MW-5 Number 0569/2. Date Nov 2', 05 mple By Osic Stortz Purge Volume Development/Purge Method(s) ing Diameter: 2-inch [X] 4-inch [ ] Other \_\_ [ ] Swab [ ] Surge Other tal depth (TD) of casing in feet 19 52 Depth to water (DTW) in feet 4.55 Bailer Type: [ ] Pump  $19.58 \pm 55$  x 3 x 117 = 7.66 gallons Pump Type: [ \]! Submersible [\times] Centrifuge [ ] Bladder [ ] Other Explanation For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 0166PM 4" diameter well: V = 3, F + 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature pΗ Gallons pumped DEPTH a.m. [ ] p.m. [ ] Microhos/centimeter [A]°C [ ]°F Start 153 1193 62 12:59=5 .15 23 2 7.51 22 152 4 644 23 109 7:45 152 8600 Paged l Gallons Pumped \_\_\_ Observations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [A] Other <u>Steam Bay @ Site</u>. Sampling Date: Nov 2, '05

Well Development and Sampling Form AC TRANSIT MELL WATER

B Name Apolitoring / EMERY VILLE SIZE Well Number MIDT C Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other\_ [ ] Swab [ ] Surge Other \_\_\_\_ Total depth (TD) of casing in feet [ ] Bail Bailer Type: Depth to water (DTW) in feet 42/
Purge Volume Calculation [ ]Pump  $\frac{197 - 421}{x^3} \times \frac{9}{7} = \frac{79}{9}$  gallons Pump Type: [ X] Submersible [ X) Centrifuge [ ] Bladder [ ] Other - DTW x V x F = purge volume Explanation For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V = 3, F+ 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature pΗ ORP Turbidity DO Gallons pumped a.m. [ ] p.m. [ 🔨] Microhos/centimeter [¼]°C [ ]°F Start 1.57 3.3 23.2 2 117 2315 979 23.6 93 6 4・フろ Observations during purging (well condition, turbidity, color, odor): FUEC OOUR. / QUAR TURBID Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [ > ] Other Stem Gay @ Site.

Sampling Date: Nov. 2, 05

Job Name <u>Mayiter</u>	ing Eme	Development  Option  RY VILLE Size W	Vell Number	w-7				·
Number <u>0569</u> Sample By <u>Înc</u>							·	
Sample By	STORTE			•			·	
	Purge Volu	me	Dev	elopment	/Purge N	<b>Tetho</b>	d(s)	7
ing Diameter: 2-inch [	] 4-inch [ ]	Other	[ ] Swab [ ]	``				
Total depth (TD) of casin			_+ [ ] Bail	·				
Depth to water (DTW) in Purge	Volume Cal	culation $f = \frac{10.75}{\text{gallo}}$	Pump Type: [	Submer	sible [X]	Centri	fuge	
	,	= purge volume		] Bladder	[ ]	Other		
For 2" diameter well: V = 5		Expla	nation V= well volume				015 6Pm	
4" diameter well: $V = 3$	, F+ 0.66 gallon/	foot	F= gallon of wat	er per foot of	f casing		engan para Salah Baran Salah S	
		Field Pa	rameters	<u> </u>				7
Time a.m. [ ] p.m. [ 🔀	рН	Conductivity Microhos/centimeter	Temperature	Tur O R P	bidity	FE	llons pumped	
Start					3:19	0 03		
2-205 2-295	725	718	22	145			2	16
2-30	6.95	919	21	147	Company (Agin Company)	The state of the s	4	14.6
2-40	68	923.	21.7	151	general property and the state of the state	estate of the second se	8.	20.
2-48							11 GAR	Pire
om Gallons Pumped _								
bservations during pur	ging (well con	dition, turbidity, color,	odor):					

Well Development and Sampling Form ACTEANSIT WELL WATER Job Name Apolito ANG / EMERY VILLE SITE. Well Number NW-8 Number 0569/2 Date Nov. 02, 05 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other\_\_\_ [ ] Swab [ ] Surge Other tal depth (TD) of casing in feet 20:54 Bailer Type: Depth to water (DTW) in feet 5.05 Purge Volume Calculation [ ]Pump 0.58 - 5.05 x  $3 \times 0.17 = 7.9 \times 2$  gallons Pump Type: [X] Submersible [ A Centrifuge Bladder [ ] Other  $TD - DTW \times V \times F = purge volume$ Explanation ,56h For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V = 3, F + 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature pН Gallons pumped a.m. [ ] p.m. [ 🔀 Microhos/centimeter Start 126 23. 939 23. 152 7.26 942 23 150 Fall Gallons Pumped Observations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [ ] Other Steam Bay (D Sire . Was Sampling Date: NW. 02, 05

Well Development and Sampling Form ACTENNSIT NEEL WATER

b Name of paitoring / EMRY VILLE SITE. Well Number MW-9 b Number 0569/2 Date Nov. 2, 06 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other \_\_ [ ] Swab [ ] Surge Other Tatal depth (TD) of casing in feet 30 50 [ ] Bail Bailer Type: Depth to water (DTW) in feet 426

Purge Volume Calculation [ ] Pump 20.50 - 40.26) x 3 x 0.17 = 9.28 gallons Pump Type: [X] Submersible [X] Centrifuge [ ] Bladder [ ] Other  $-DTW \times V \times F = purge volume$ Explanation Iko For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 0.5 GPIN. 4" diameter well: V = 3, F + 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature Turbidity pН Gallons pumped a.m. [ ] p.m. [ 🔨 ] Microhos/centimeter [X]°C[]°F Start 1.42 1172 45 2.5 144 7.36 22.60 159 22.5 2 79160 159 8.72 22.5 15%

Observations during purging (well condition, turbidity, color, odor):

Sampling Date: Mov. 2, 05

Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [x] Other Tream Pay & Sire.

ame <u>Alcalizo</u> .	BIT NEW MAKS JEM	WATER RYVING SITE	Well 1	Number <u>L</u>	100-	10		
umber <u>0.569/</u>	12		Date_	u/z	2/05		· .	
e By Bic.	340272	***		No Cova	• •			
	Purge Volu	me		Deve	elopmen	t/Purge N	<b>Tethod</b>	(s)
Diameter: 2-inch [	] 4-inch [ ]	Other		[ ] Swab [ ] S				
depth (TD) of casi	ng in fact 1.	Side No		r inum riir	Juigo Oth	···		····
to water (DTW) in	_	21	T	[ ] Bail	Bailer	Type:		·
Purge	Volume Ca			[ ] Pump Pump Type: [ ×	Ol Subme	rsible (X)	Centrifi	ige
EL-421)	x_2_x_	17= <u>17=3</u> gal	llons	p ±3,50. [ /	] Bladde		Other	-5∨
TD - DTW	x V x	F = purge volum	e lanat	l ion	1 Diante	· []		,
diameter well: V = 5	5, F = 0.17 gallor	√foot	шиц	V= well volume	•			
diameter well: V = 3	3, F+ 0.66 gallon	/foot	·	F= gallon of wate	r per foot o	f casing	<del></del>	
		Field P	aran	eters			<del></del>	
Time	pН	Conductivity		Temperature	Tu	bidity		ons pumped
. f . 1 fo.et		Microhos/centimeter	1 [	]°C[]°F	CKY	) DU	Fe.	
n. [ ] p.m. ['★]		TATION ON OS COMMINGEO					1	
Start	7.86			2 12 12	01	0.25	0.45	7
Start 33.5.	7.86			2012	12/	2.35	2:67	2
Start 3:33 s. 3:07F.		695				2.35	2:67	The state of the s
	7.86			20:2	12/	2.35	2:67	2
Start 3335. 377.	7.83	689		20-3	117	2.35	267	4
Start 3:33 S. 3:37年。		695				2.35	2.67	The state of the s
Start 3:335. 3:37F. 3:41 3:45	7.83	689		20-3	117	2.35	2.67	4
Start 3:335. 3:37F. 3:41	7.83	689		20-3	117	2.35	2:67	4
Start 5:335. 3:37F. 5:41	7.83	689		20-3	117	2.35	2:67	4
Start 3355. 377. 3141 3145	7.83	689		20-3	117	2.35	2'67	4
Start  3355.  377.  3.44  3.45  Gallons Pumped	7.83	689		20.3	117		2.67	4

Well Development and Sampling Form ACTRANSIT NEW WATER Job Name & JOWITORING / EMRYVUCE SITE Well Number N/W-1/ Date 11/2/05 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other [ ] Swab [ ] Surge Other tal depth (TD) of casing in feet\_\_\_\_\_\_ 17° 4 [ ] Bail Bailer Type: Depth to water (DTW) in feet  $4 \cdot 30$ Purge Volume Calculation [ ] Pump  $(7.4 - 4.30) \times 3 \times 0.7 = 6.69$  gallons Pump Type: [ > Submersible [ > Centrifuge [ ] Bladder [ ] Other  $\overline{TD}$  -  $\overline{DTW}$  x V x F = purge volume **Explanation** 056PM. For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V = 3, F+ 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature pН Gallons pumped a.m. [ ] p.m. [ 💜 Microhos/centimeter [XI°C [ ] °F <u>630</u> 2347 432 236 138. 5 28 23.6 138 7 GALPURG l Gallons Pumped Diservations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [x] Other Sterm And a Sint . Van Sampling Date: Nov 2, 05

Well Development and Sampling Form De Name Alongrobias / FRERY WILE SITE Well Number MW-12 b Number 0569 102 Date Nov. 2, 05 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other\_ [ ] Swab [ ] Surge Other \_\_\_\_ tal depth (TD) of casing in feet 29 9 [ ] Bail Bailer Type: Depth to water (DTW) in feet 1076 Purge Volume Calculation [ ] Pump 29.9 - 10.76) x  $3 \times 0.17 = 9.76$  gallons Pump Type: [X] Submersible [X] Centrifuge [ ] Bladder [ ] Other - DTW x V x F = purge volume **Explanation** For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V = 3, F + 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Time Conductivity Temperature pΗ Gallons pumped a.m. [ ] p.m. [X] Microhos/centimeter [X]°C [ ]°F DEPH Start 1265 121 1170 174 20 760 1318 201 120 201 122 14.7 10 Gal luga 22 STOPPED Total Gallons Pumped \_ Observations during purging (well condition, turbidity, color, odor): DARK Duris H.

Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [ ] Other Steam Bus @ 317E.

Sampling Date: Nov. 2, 05

Well Development and Sampling Form

h Name <u>Monitoli</u> b Number <u>0569</u>	12.		Date		1/3/1	25	•		
mple By <u> <i>Bue</i> 57</u>	ORTE		·	•		•			
P	urge Volui	me			Devel	opment/Pu	rge M	ethoc	l(s)
sing Diameter: 2-inch [ ]	4-inch [ ]	Other	• `	[]Swab	[ ] Su	rge Other		·	<u> </u>
tal depth (TD) of casing		·		. [ ] Bail		Bailer Type	:		
pth to water (DTW) in f		1 (1	·····	Pumr					
	olume Cal		gallons		e: [ <b>/\3</b>	Submersible			luge
TD - DTW x	V x I	= purge			[ ]	Bladder	[ ]	Other	
 2" diameter well: V = 5,	F≈0.17 gallon	/foot	Explana	ition V= well vo	lume				
4" diameter well: V = 3, I			· · · · · · · · · · · · · · · · · · ·			per foot of casin	g		· · · · · · · · · · · · · · · · · · ·
			Field Para	meters					<del></del>
Time	pН	Conduct	ivity	Temperatur	e	Turbidity		Ga	llons pumped
a.m. [ ] p.m. [ ]	-	Microhos/ce	ntimeter	[]°C[]	°F				
Start		······································							
						<i>G</i>	ALLO	N5	PURGE
		Excess	SIVE -	FREE	PROL	OUCTS.	No	7	TOSTED
	THICK	DANK	BROWN	LQU	40.	Touc	Fv.	50	0100.
						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u></u>	· · · · · · · · · · · · · · · · · · ·
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	<u> </u>					· · · · · · · · · · · · · · · · · · ·			
				_			٠	•	
ervations during purgi	ng (well con	dition, turbid	lity, color, oc	lor):	· · · <del>-</del>				
						-			

Well Development and Sampling Form Job Name Mourtounes / Entert VILLE SITE Well Number Wb Number 0569/02 Date 4/1 05 Purge Volume Development/Purge Method(s) sing Diameter: 2-inch [ ] 4-inch [ ] Other\_\_\_\_ [ ] Swab [ ] Surge Other \*\*Tetal depth (TD) of casing in feet 16 8 5 + [ ] Bail Bailer Type: \_\_\_\_ Depth to water (DTW) in feet 6 59.

Purge Volume Calculation [ ]Pump  $(6.83 - 6.59) \times 3 \times 0.77 = 5.22$  gallons Pump Type: [ ] Submersible [ ] Centrifuge [ ] Bladder [ ] Other Explanation For 2" diameter well: V = 5, F = 0.17 gallon/foot V= well volume 4" diameter well: V = 3, F + 0.66 gallon/foot F= gallon of water per foot of casing **Field Parameters** Conductivity Temperature OFP Turbidity DO pН Gallons pumped a.m. [ ] p.m. [ ] Microhos/centimeter [YI°C [ 1°F Start 5-23 22-9 121/123 3.30 5-25 230 824 23 111 66×1 Tel Gallons Pumped Observations during purging (well condition, turbidity, color, odor): Discharge water disposal: [ ] Sanitary Sewer [ ] Storm Drain [ ] Drum [x] Other Green Bay & Site.

Was Sampling Date: Nov 2, 2005

## Well Development and Sampling Form

		- Bu 500212					
	urge Volur	· · · · · · · · · · · · · · · · · · ·	Dev	elopment	/Purge M	ethoc	l(s)
g Diameter: 2-inch [ ]	4-inch [ ] (	Other	[] Swab []	Surge Othe	er	· · · · · · · · · · · · · · · · · · ·	
depth (TD) of casing	in feet	<u>8.7</u>	_+		·		
h to water (DTW) in f	feet Z o	24	[ ] Bail	Bailer	Type:		· · · · · · · · · · · · · · · · · · ·
Purge V	Volume Cal		[ ] Pump Pump Type: [/	] Submer	sible [X]	Centrif	fuge
,			[	] Bladder	[ ]	Other	
ID - DIW X	V X I	= purge volume Explai	nation		<del> </del>	···· = ·	······································
"diameter well: $V = 5$ ,	F = 0.17 gallon	/foot	V= well volume				
" diameter well: $V = 3$ ,	F+ 0.66 gallon/	foot	F= gallon of wat	er per foot o	f casing		
		Field Par	rameters				
Time	pН	Conductivity	Temperature	Tu	bidity D	G	llons pumped
n. [ ] p.m. [X]  Start	-	Microhos/centimeter	[x]°C[]°F	085	DV	FE.	
\$45 g	12:7	507	20	1'2_ 1'2	7	_	2 .
	7.2	<u> </u>	22	130	2-17	D	3
5-517.	1 27	a Carr	~ ^	111.		<del></del>	
5-57	1-26	495	22	114			6
1-63	- 1	523.	0.119	100			
6-63	7.21	529	21'9	119			9
	1 !			4	1		
				_	<u> </u>	<u> </u>	<del>                                     </del>
							11 Gal

	21NB / E	Development  WATER  MRAVIUE SITE V						<del></del>
umber <u>8569</u>	7/2.	n	Date	Nov 2, 4	15			· · · · · · · · · · · · · · · · · · ·
Ву				• •				
P	urge Volu	me		Deve	lopment	Purge M	etho	d(s)
Diameter: 2-inch [ ]	4-inch [ ]	Other	-	] Swab [ ] S	,			
lepth (TD) of casing		16.99	+	] Bail				
to water (DTW) in f Purge V 4 - 4 7 x	Volume Cal			Pump Pump Pump Type: [	] Submers	ible [ ]	Centri	ifuge
·		/ = purge volume		[ ]	] Bladder	[ ]	Other	
diameter well: $V = 5$ ,		Expla	anatio	<b>n</b> V= well volume				
diameter well: $V = 3$ ,				F= gallon of wate	r per foot of	casing		
		Field Pa	roma	tare				
Time		Conductivity		Temperature	_ [	:		11
ı. [ ] p.m. [ ]	pH	Microhos/centimeter	]	]°C[]°F	ORP Tur	oidity D O	72 72	allons pumped
Start								
5-61								1
503	7.45	869		23.2	120	1.62	197	,
5107	7.34	878	. 2	3-1	124	n de November (Allen de November de Novemb		3
511.	7.30	852		23.1	125	Vermoda, ka ziguring a papagang a palabah (dal)	A OPERATOR OF THE PROPERTY OF	5
			•	·		A Control of the Cont	•	
						The state of the s		7 6M/F
5-13	•							And the state of t
5-13	-		1		1	1		į
5-13			<u> </u>	<u> </u>			<u></u>	1

## **APPENDIX B**

CHAIN-OF-CUSTODY FORM AND LABORATORY REPORTS



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05
Con Donner CA 04502	Client Contact: Sher Guha	Date Extracted: 11/06/05
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/06/05
Gasoline Ra	inge (C6-C12) Volatile Hydrocarbons as	Gasoline*

traction method: S			Volatile Hydrocarbons as Gasoline* tical methods: SW8015Cm	Work Order:	0511100	
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	
001A	MW-1	w	ND,i	1	108	
002A	TRIP BLANK	w	ND	1	100	
			·			
ND mean	g Limit for DF =1; s not detected at or he reporting limit	W S	50 NA	<u> </u>	g/L NA	

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

 $\mathcal{A}_{\mathsf{H}}$ 

\_Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

			Website: www.mccampbell.com E-mail; main@mccampbell.com						
Essel Technology	Service		D: #0569/2; AC Transit	Date Sampled: 11/03	/05				
9778 Broadmoore	Drive	Div. 2		Date Received: 11/04	/05				
San Ramon, CA 9	14523	Client Contact:	Sher Guha	Date Extracted: 11/04	/05				
San Kamon, CA 9	4323	Client P.O.:		Date Analyzed: 11/05	/05				
Extraction method: SW35	and the second s		nge (C10-C23) Extractable Hydrocarbons as Diesel*  Analytical methods: SW8015C						
Lab ID	Client ID	Matrix	TPH(d	)	DF	% SS			
0511100-001A	MW-1	w	70,b,f,		1	102			
					<u> </u>				
					_				
						ļ.			
						ļ			
				·	_				
Reportin	ng Limit for DF =1;	W	50		Į.	ıg/L			
	ns not detected at or the reporting limit	S	NA			NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~I vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

	C1:	-ii+	Date Sampled: 11/03/05			
Essel Technology Service	Div. 2	oject ID: #0569/2; AC Transit				
9778 Broadmoore Drive			Date Received: 11/04/05			
G D 04502	Client Co	ontact: Sher Guha	Date Extracted: 11/05/05			
San Ramon, CA 94523	Client P.	O.:	Date Analyzed: 11/05/05			
	MTB	E and BTEX by GC/MS*				
Extraction Method: SW5030B	Ал	alytical Method: SW8260B	Work Order: 0511100			
Lab ID	0511100-001B					
Client ID	MW-1	MW-1		Reporting Limit for DF =1		
Matrix	W			Dr -1		
DF	1 .		1	S	W	
Compound			ug/kg	μg/L		
Benzene	ND			NA	0.5	
Ethylbenzene	ND			NA	0.5	
Methyl-t-butyl ether (MTBE)	4.5			NA	0.5	
Toluene	ND			NA	0.5	
Xylenes	ND			NA	0.5	
	Suri	ogate Recoveries (%)				
%SS1:	103					
%SS2:	100					
%SS3:	104					
Comments	i					
* water and vapor samples are reported in µ extracts are reported in mg/L, wipe samples	g/L, soil/sludge/soli in µg/wipe.	d samples in mg/kg, product/oil/non-aqu	eous liquid samples an	d all TCLP &	SPLP	

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



É	

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IVIC	Wiccampben Analytical, Inc.					Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Technolo	Client Project ID: #0569/2; AC Transi		ransit	Date Sampled: 11/03/05								
9778 Broadmoore Drive		Div. 2				Date Received: 11/04/05						
San Ramon, C	A 04522	Client C	Contact: Sh	er Guha		Date Extracted:	11/04/05					
San Ramon, C.	A 94323	Client P.O.:				Date Analyzed: 11/05/05-11/07/05						
Extraction method: E	300.1		Inorganic An	nions by IC*	-		Work On	der: 0511100				
Lab ID	Client ID	Matrix	Nitra	te as N	_	Sulfate	DF	% SS				
0511100-001C	MW-1	w	]	ND		56	1	93				
							}					
								<u> </u>				
Repor	ting Limit for DF =1;	W 0.1				0.1 mg/L						
ND means not detected at or above the reporting limit		S				NA mg/Kg						
						4	avid semples	:/T				

# surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8021B/	В	BatchID: 18903			Spiked Sample ID: 0511100-002A					
A malada	Sample	Spiked	MS	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)	
Analyte	µg/L	µg/L	% Rec.						MS/MSD	LCS / LCSD
TPH(btex)£	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
МТВЕ	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001A	1/03/05 12:10 PM	11/06/05	11/06/05 1:57 AM	0511100-002A	11/03/05	11/06/05	11/06/05 2:30 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

A QA/QC Officer



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8260B	E	Extraction: SW5030B			Batc	BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample S		MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Allalyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	. 102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001B	1/03/05 12:10 PM	11/05/05	11/05/05 5:50 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

\_\_\_\_QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: SW8015C	E	Extraction: SW3510C			Batcl	BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Filalyto	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001A	1/03/05 12:10 PM	11/04/05	11/05/05 2:26 AM			,	

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD splke recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511100

EPA Method: E300.1	E	Extraction: E300.1			BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511100-001c	1/03/05 12:10 PM	11/04/05	11/05/05 3:44 AM	0511100-001C	1/03/05 12:10 PM	11/04/05	11/07/05 7:37 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

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VOAS O&G METALS OTHER



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111	ccampben All	aiyu		Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Techno	ology Service			): #0569/2; AC Transit   Date Sampled: 11/03/05						
9778 Broadn	noore Drive		Div. 2		Date Received: 11/04	/05				
San Ramon, CA 94523			Client Contact: Sh	ner Guha	Date Extracted: 11/06	/05				
San Kamon,	CA 94323		Client P.O.:		Date Analyzed: 11/06	6/05				
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*  Extraction method: SW5030B Analytical methods: SW8015Cm Work Order:										
Lab ID	Client ID	Matr	ix	TPH(g)		DF	% SS			
001A	MW-2	w		ND		1	101			
002A	TRIP BLANK	w		ND		1	100			
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		Ţ					1			

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

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<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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MICCA	WicCampbell Analytical, Inc.			Website: www.mccampbell.com E-mail: main@mccampbell.com					
Essel Technology	Service	Client Project II	D: #0569/2; AC Transit	Date Sampled: 11/0	)3/05				
9778 Broadmoore	Drive	Div. 2		Date Received: 11/0	04/05				
0D	4522	Client Contact:	Sher Guha	Date Extracted: 11/0	04/05				
San Ramon, CA 9	4323	Client P.O.:		Date Analyzed: 11/0	)5/05				
			ractable Hydrocarbons	as Diesel*	Work Order:	0511098			
Extraction method: SW35	Client ID	Matrix	al methods: SW8015C TPH(d		DF	% SS			
Lab ID	Citent ID	Mainx	1111/4	,					
0511098-001A	MW-2	w	110,b		1	105			
		i		_					
			-						
						-			
						1			
						1			
	g Limit for DF =1; as not detected at or	W	50			ıg/L			
	the reporting limit	S	NA			NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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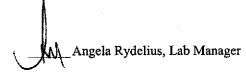
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	··				<u> </u>	
Essel Technology Service		roject ID:	#0569/2; AC Transit	Date Sampled:	11/03/05	
9778 Broadmoore Drive	Div. 2			Date Received:	11/04/05	
G . B G4 04522	Client C	Contact: Sl	ner Guha	Date Extracted:	11/05/05	·-
San Ramon, CA 94523	Client P	.O.:		Date Analyzed:	11/05/05	<u> </u>
Extraction Method: SW5030B		E and BT	EX by GC/MS* ad: SW8260B		Work Ord	er: 0511098
Lab ID	0511098-001B		:			
Client ID	MW-2	ALIENSA, MARIAN IN INCOMPRESSORS	i		Reporting	Limit for
Matrix	W				DF	
DF	1		THE STATE OF THE S		S	W
Compound			Concentration		ug/kg	μg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	4.9				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5
*** * ***** * * * * * * * * * * * * *	Suri	rogate Re	coveries (%)			
%SS1:	101					
%SS2:	100					
%SS3:	106		-			
Comments						
* water and vapor samples are reported in μ		d samples in	mg/kg, product/oil/non-aque	cous liquid samples and	d all TCLP & S	SPLP

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05		
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05		
	Client Contact: Sher Guha	Date Extracted: 11/04/05		
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/05/05-11/07/05		
	Y Y TOP			

#### Inorganic Anions by IC\*

 Extraction method:
 E300.1
 Work Order:
 0511098

 Lab ID
 Client ID
 Matrix
 Nitrate as N
 Sulfate
 DF
 % SS

 0511098-001C
 MW-2
 W
 0.43
 53
 1
 94

			<u> </u>		<u> </u>	
0511098-001C	MW-2	w	0.43	53	1	94
		_				
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Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8021B	EPA Method: SW8021B/8015Cm Extraction: SW5030B							Spiked San	iked Sample ID: 0511093-001A		
A 1 . 4 -	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130	
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130	
Benzene	ND	10	102	105	2,49	103	102	1.28	70 - 130	70 - 130	
Toluene	ND	10	.99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130	
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130	
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130	
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001A	1/03/05 12:17 PM	11/06/05	1/06/05 12:51 AM	0511098-002A	11/03/05	11/06/05	11/06/05 1:24 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons; a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

\_QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8260B	E	xtraction	: SW5030	В	Batc	hID: 18898	}	Spiked Sample ID: 0511082-002A			
Analyta	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001B	1/03/05 12:17 PM	11/05/05	11/05/05 4:25 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8015C Extraction: SW3510C			Batcl	hID: 18894 Spiked Sample ID: N/A						
Analida	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

**BATCH 18894 SUMMARY** 

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed

0511098-001A 1/03/05 12:17 PM 11/04/05 1/05/05 12:05 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

 $\mathscr{M}_{\mathrm{QA/QC\,Officer}}$ 



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: E300.1	E	xtraction	E300.1		BatchID: 18902 Spiked Sample ID: N/A				<u> </u>	
A 1.4-	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	l	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### **BATCH 18902 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001c	1/03/05 12:17 PM	11/04/05	11/05/05 2:12 AM	0511098-001C	1/03/05 12:17 PM	11/04/05	11/07/05 6:36 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

M\_QA/QC Officer

054698 m m m m/sely 99 Wh 21 McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2"d AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR 5 D. GeoTracker EDF PDF Excel Write On (DW) Telephone: (877) 798-1620 Fax: (925) 798-1622 Report To: SHERE GUILA. Bill To: Essected Analysis Request Other Comm Company: ESSE TEHNOLOGY SERVICES INC. 9178 BONDOLOURE DR. SAN PAMONE. CA 94-523 E/B&F) EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners Filter EPA 524.2 1 674 18260 NOCS) RIEX + MTSS 3 E-Mail: Esse Transenvices Coast lour. Sampl Tele: (415) 794-1960. Total Petroleum Oil & Grease (1664 / 5520 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Me Fax: (925 ) 230 - 79 77 MTBE / BTEX ONLY (EPA 602 / 8021) Project #: 0569/2 EPA 502,2 / 601 / 8010 / 8021 (HVOCs) analys. Project Name: At Tamber Div. 2 EPA 8270 SIM / 8310 (PAHs / PNAs) Yes / N Project Location: GABRIVILE. Lead (200.7 / 200.8 / 6010 / 6020) RPA 507 / 8141 (NP Pesticides) Sampler Signature: 150 July TPH as Diesel)/ Motor Oil METHOD SAMPLING MATRIX Type Containers PRESERVED LOCATION/ SAMPLE ID Field Point Sludge Other Name Date Time HCL HNO, Other ICE Soil MW201-06 Enemale 11/3 101 Ų. A N MW207-08 12-20 2 And XI XI 1/1209 Pdy V NA TRIP DINKS 120 Relinquished By: Date: Received By: Time: ICE/to Blue Cours COMMENTS: 10:56 GOOD CONDITION Relinquished By: HEAD SPACE ABSENT Date: Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB Relinquished By: Date: Time: Received By: VOAS O&G METALS OTHER

# **CHAIN-OF-CUSTODY RECORD**

of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0511098

ClientID: ETSR

5

EDF: NO

5 days

Report to:

Sher Guha

**Essel Technology Service** 9778 Broadmoore Drive San Ramon, CA 94523

TEL: FAX:

(925) 833-7991 (925) 833-7977

ProjectNo: #0569/2; AC Transit Div. 2

PO:

Bill to:

Sher Guha

**Essel Technology Service** 9778 Broadmoore Drive San Ramon, CA 94523

Date Received:

Requested TAT:

11/04/2005

12

Date Printed: 11/04/2005

Sample ID

0511098-001

ClientSampID

MW-2

Matrix

Water

Collection Date Hold

11/3/05 12:17:00

C

В

3

Requested Tests (See legend below)

7

6

11

10

Test Legend:

1	300_1_W
6	
11	

2	G-MBTEX_W	_
7		
12		

MBTEX-8260B_W

4	
9	

	5				 	 	 
[	10				 	 	 

Prepared by: Maria Venegas

Comments:

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



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1_15	<u> </u>							
Essel Technol	ogy Service		1	Date Sampled: 11/03/05				
9778 Broadmo	oore Drive		Div. 2 Date Received:	Date Received: 11/04/05				
	NA 04502	ļ	Client Contact: Sher Guha Date Extracted:	Date Extracted: 11/06/05				
San Ramon, C	A 94523		Client P.O.: Date Analyzed:	Date Analyzed: 11/06/05				
	Gaso	line Rai	nge (C6-C12) Volatile Hydrocarbons as Gasoline*					
Extraction method: S	SW5030B		Analytical methods: SW8015Cm	Wor	k Order:	0511101		
Lab ID	Client ID	Matri	x TPH(g)		DF	% SS		
001A	MW-3	w	ND		1	100		
002A	TRIP BLANK	w	ND		1	103		
	-							
	<u> </u>							
		<del> </del>						
		-				<del> </del>		

ı				
	Reporting Limit for DF =1;	w	50	μg/L
	ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Ligar				weosite: www.inccampoeti.com E-mail. manitumicampoeti.com						
Essel Techno	logy Service	Client Proje Div. 2	ct ID:	#0569/2; AC Transit	Date Sampled: 11/03/05					
9778 Broadn	noore Drive	D17. 2			Date Received: 11/04/05					
San Ramon, (	CA 94523	Client Conta	act: Sh	er Guha	Date Extracted: 11/04	/05				
~~ ACHIOII,	~	Client P.O.:	Client P.O.: Date Analyzed: 11/0.							
Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*  Extraction method: SW3510C Analytical methods: SW8015C Work										
Extraction method:  Lab ID	SW3510C Client ID	· _ · · · · · · · · · · · · · · · · · ·	arytical me			rk Order:				
Lav ID	Cheft ID	Matrix		TPH(d)	,	DF	% SS			
0511101-001A	MW-3	w		180,g,b	1	1	103			
						:				
, , , , , , , , , , , , , , , , , , , ,						<del> </del>				
		+								
				<u>.</u>		†				
						<u> </u>				
						<del>                                     </del>				
						<u> </u>				
		<u> </u>					<u></u>			
	porting Limit for DF =1;	w		50		μ	g/L			
	means not detected at or pove the reporting limit	S		NA		<del></del>	NA			
						*****				

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

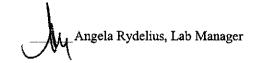
M



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Essel Technology Service		roject ID: #0569/2; AC Transit	Date Sampled:	11/03/05			
9778 Broadmoore Drive	Div. 2		Date Received:	Date Received: 11/04/05			
San Ramon, CA 94523	Client C	ontact: Sher Guha	Date Extracted:	ted: 11/05/05			
San Ramon, CA 94323	Client P.	.O.:	Date Analyzed:	11/05/05			
Extraction Method: SW5030B		E and BTEX by GC/MS*		Work Ord	er: 0511101		
Lab ID	0511101-001B	alytical Medicu. 3 w 6200B		WBIR OIG	ei. <b>v</b> 311101		
Client ID	MW-3		THE RESERVE ALTERNATION OF THE STATE OF THE	Reporting	Limit for		
Matrix	w	w					
DF	1	:	· · · · · · · · · · · · · · · · · · ·	s	W		
Compound		Concentration		ug/kg	μg/L		
Benzene	ND			NA	0.5		
Ethylbenzene	ND			NA	0.5		
Methyl-t-butyl ether (MTBE)	3.2			NA	0.5		
Toluene	ND			NA	0.5		
Xylenes	ND			NA	0.5		
	Surr	ogate Recoveries (%)	<u> </u>	<u> </u>			
%SS1:	102						
%SS2:	100						
%SS3:	107						
Comments							
* water and vapor samples are reported in $\mu$ extracts are reported in mg/L, wipe samples	g/L, soil/sludge/solid in µg/wipe.	samples in mg/kg, product/oil/non-aquec	ous liquid samples and	all TCLP & S	PLP		

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.



<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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MICC	ampoeii Anaiyi	ncai, inc.	•	Website: www.mccampbell.com E-mail: main@mccampbell.com							
Essel Technolog	y Service		oject ID:	#0569/2; AC Transi	it Date Sampled	: 11/03/05					
9778 Broadmoo	re Drive	Div. 2			Date Received	1: 11/04/05					
San Ramon, CA	94523	Client Co	ntact: Sh	er Guha	Date Extracted	1: 11/04/05					
Dan Rankon, CA	) + 3 <i>L</i> 3	Client P.0	Э.:		Date Analyzed	i: 11/05/05-1	1/07/05				
Extraction method: E30	0.1		organic Ai	nions by IC* ds: E300.1		Work Or	der: 0511101				
Lab ID	Client ID	Matrix	Nitra	ite as N	e as N Sulfate						
0511101-001C	MW-3	w	3	3.5	67	1	95				
:											

Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8021B/	8015Cm E	xtraction	SW5030	В	BatchID: 18903			Spiked Sample ID: 0511100-002A			
Analyte	Sample	Spiked	MS	M\$D	D MS-MSD LCS			LCS-LCSD	Acceptance Criteria (%)		
Allayte	μg/L	μg/Ł	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130	
МТВЕ	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130	
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130	
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130	
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130	
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130	
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001A	1/03/05 12:25 PM	11/06/05	11/06/05 4:41 AM	0511101-002A	11/03/05	11/06/05	11/06/05 5:13 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8260B	A Method: SW8260B Extraction: SW5030B						3	Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Cheryte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001B	1/03/05 12:25 PM	11/05/05	11/05/05 6:32 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

M\_QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: SW8015C	E	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
Allalyte	µg/L	µg/∟	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18894 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed 0511101-001A 1/03/05 12:25 PM 11/04/05 11/05/05 3:34 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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\_QA/QC Officer



NONE

# McCampbell Analytical, Inc.

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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511101

EPA Method: E300.1	E	Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A		
Analyta	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115	
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115	
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

**BATCH 18902 SUMMARY** 

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511101-001c	1/03/05 12:25 PM	11/04/05	11/05/05 4:15 AM	0511101-001C	1/03/05 12:25 PM	11/04/05	11/07/05 8:08 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

\_\_QA/QC Officer

the graph of McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2<sup>ed</sup> AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR • 5 DA GeoTracker EDF PDF Excel Write On (DW) Telephone: (877) 798-1620 Fax: (925) 798-1622 Report To: SHER GUM BILL TO: ESSECTER. Analysis Request Other Comme Company: ISSEE TECHNOLOGY SERVICES INC. 9178 BROWNIANE DR. SAN RAMONE, CA. Filter EPA 524.2 / 624 (6260) NOCS) BIEX + HTBS Sample E-Mail: for Me Tele: (415) 994-1960 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Fax: (925) 833 - 7977 analysi Project #: 0569/2 EPA 515 / 8151 (Acidic Cl Herbicides) Project Name: Ac TRAWSIT DIV 2 8270 SIM / 8310 (PAHs / PNAs) Yes / N Project Location: EmeRivice Lead (200.7 / 200.8 / 6010 / 6020) EPA 525.2 / 625 / 8270 (SVOCs) Sampler Signature: METHOD SAMPLING **MATRIX** Type Containers PRESERVED Containers LOCATION/ SAMPLE ID Field Point Sludge Name Date Time Other HNO HCL ICE Soil Air Buyld. MW301-00 3 12-35 VOA A X MN307-08 2 Amb Χı 'XI MW309 804 12-30 Ü X. 义 TRIP DEANK VeARelinquished By: Date: Time: Received By: ICE/t° COMMENTS: Sher Gull. 11/4 GOOD CONDITION HEAD SPACE ABSENT Relinquished By: Date: Time: Received By: DECHLORINATED IN LAB

Relinquished By:

Date:

Time:

Received By:

APPROPRIATE CONTAINERS

VOAS O&G METALS OTHER

PRESERVED IN LAB



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Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05
G B CA 04502	Client Contact: Sher Guha	Date Extracted: 11/05/05-11/08/05
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/05/05-11/08/05

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

ction method:	SW5030B	Analytic	eal methods: SW8015Cm	Work Order:	0511093	
Lab ID	Client ID	Matrix	TPH(g)	DF	% S	
001A	MW-4	w	ND	1	109	
002A	TRIP BLANK	W	ND	1	97	
					_	

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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cai, inc.	Website: www.mcci	mpbell.com E-mail: main@	упесапроен.сон	5 5 5				
	o: #0569/2; AC Transit	Date Sampled:	11/03/05					
DIV. 2		Date Received:	11/04/05					
Client Contact:	Sher Guha	Date Extracted:	11/04/05	/05				
Client P.O.:		Date Analyzed:	11/05/05					
ge (C10-C23) Extr	actable Hydrocarbons	as Diesel*						
Analytical			Work Order:					
Matrix	TPH(d	)	DF	% SS				
w	ND		1	91				
				!				
337	50	-		ıg/L				
				NA.				
	Div. 2  Client Contact: Client P.O.:  ge (C10-C23) Extr  Analytical  Matrix	Client Project ID: #0569/2; AC Transit Div. 2  Client Contact: Sher Guha Client P.O.:  ge (C10-C23) Extractable Hydrocarbons at Analytical methods: SW8015C    Matrix	Client Project ID: #0569/2; AC Transit Date Sampled: Div. 2 Date Received:  Client Contact: Sher Guha Date Extracted: Client P.O.: Date Analyzed:  ge (C10-C23) Extractable Hydrocarbons as Diesel*  Analytical methods: SW8015C    Matrix   TPH(d)	Div. 2  Client Contact: Sher Guha Client P.O.:  Date Extracted: 11/04/05  Date Analyzed: 11/05/05  ge (C10-C23) Extractable Hydrocarbons as Diesel*  Analytical methods: SW8015C  Work Order:  Matrix  TPH(d)  ND  1  W  ND  1  W  S0  Date Analyzed: 11/05/05				

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

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<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard folvent/mineral spirit.



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_ <del></del>						<del></del>
Essel Technology Service		roject ID: #0:	569/2; AC Transit	Date Sampled:	11/03/05	
9778 Broadmoore Drive	Div. 2			Date Received:	11/04/05	
	Client (	Contact: Sher (	Guha	Date Extracted:	11/05/05	
San Ramon, CA 94523	Client I	P.O.:		Date Analyzed:	11/05/05	
Extraction Method: SW5030B		BE and BTEX			Work Orde	er: 0511093
Lab ID	0511093-001B					
Client ID	MW-4		A A STATE OF THE S	:	Reporting	Limit for
Matrix	W	-			DF	=1
DF	1				S	W
Compound	Concentration				ug/kg	µg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	4.1				NA	0.5
Toluene	ND	·		·	NA	0.5
Xylenes	ND				NA	0.5
	Sui	rogate Recov	eries (%)			
%SS1:	102					
%SS2:	100					
%SS3:	104					
Comments						

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>\*</sup> water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

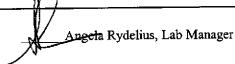


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MICU	ampbeli Anaiyu		Website: www	y,mccan	pbell.com E-mail: main@	led: 11/03/05						
Essel Technolog	y Service		ject ID:	#0569/2; AC Tran	nsit	Date Sampled:	11/03/05					
9778 Broadmoor	re Drive	Div. 2				Date Received:	11/04/05					
1		Client Co	Client Contact: Sher Guha Date Extracted: 11/04/05									
San Ramon, CA	94323	Client P.C	D.:			Date Analyzed:	11/04/05-1	1/07/05				
Extraction method: E30	0.1		organic A	nions by IC*			Work Order: 051109					
Lab ID	Client ID	Matrix	Nitra	nte as N		Sulfate	DF	% SS				
0511093-001C	MW-4	w		3.5		67	l.	94				
						-						
	<u> </u>											
							<u> </u>					
		1					<u></u>					

Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg
**************************************				<u></u>

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8021B/	8015Cm E	xtraction:	SW5030	В	Batc	hID: 18900		Spiked San	nple ID: <u>051</u>	1093-001A
Analyte Sa		Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
1 1	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
мтве	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	.99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001A	1/03/05 11:15 AM	11/08/05	11/08/05 3:25 AM	0511093-002A	1/03/05 11:15 AM	11/05/05	11/05/05 7:22 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

L QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8015C	E	xtraction:	SW3510	C	Batcl	ple ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyto	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18894 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed 0511093-001A 1/03/05 11:15 AM 11/04/05 11/05/05 6:59 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

\_\_\_QA/QC Officer



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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: SW8260B	E	xtraction	SW5030	В	Batc	hID: 18898		Spiked Sample ID: 0511082-002A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD			
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130			
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130			
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130			
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130			
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130			
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18898 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed

0511093-001B 1/03/05 11:15 AM 11/05/05 1/05/05 12:52 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

\_QA/QC Officer



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511093

EPA Method: E300.1	- E	xtraction	: E300.1		Batc	hID: 18820	}	Spiked San	nple ID: N/A			
01-4-	Sample	Spiked	MS	MSD	MS-MSD LCS LC		LCSD	LCS-LCSD	Acceptance	æ Criteria (%)		
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115		
Sulfate	N/A	ı	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115		
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511093-001c	1/03/05 11:15 AM	11/04/05	1/04/05 11:38 PM	0511093-001C	1/03/05 11:15 AM	11/04/05	11/07/05 5:03 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due thingh matrix or analyte content.

DHS Certification No. 1644

\_\_QA/QC Officer

WELL # MW-A

# McCAMPBELL ANALYTICAL, INC. 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560

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SAMPLE ID	Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	ICE ICE	HCL	HNO,	Other	MTBE / BTEX 8	MTBE / BTEX ONLY (EPA	TPH as Diesel/ Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Ct Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 (8260) VOC3) GIEX	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Ningto ; Suffite			4
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Relinquished By:		11/4	11-15	11/	M		1/		// /		8			GO	OD (	CON	DITI	ION_	NT								'	CON	TIVIE	INTS:	; -		
remedinated BA:		Date:	Time:	Pero	und Da					<u> </u>				II.E.	AU S	PAC	E A	BSE	NT	1	-												

DECHLORINATED IN LAB APPROPRIATE CONTAINERS

VOAC DEC METATO CONTENT

PRESERVED IN LAB



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05
	Client Contact: Sher Guha	Date Extracted: 11/05/05
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/05/05
	" D (C) C(A) II 1 II 1 II 1 I 1 I 1 I 1 I 1 I 1 I 1	Constitute 4

xtraction method: S	Work Order:	051109-				
Lab ID	Client ID	Matrix	nalytical methods: 8015Cm TPH(g)	DF	% SS	
001A	MW-5	w	ND	1	99	
002A	TRIP BLANK	W	ND	1	99	
					-	
					-	
		Í				
Reporting	; Limit for DF =1;	W	50		ıg/L	
ND means	not detected at or	S	NA	N.		

	1		
ND means not detected at or		NT.	N/A
ate and the agree time time!	S	l NA	INA.
above the reporting limit			
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	CDI D	the second secon	ine

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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McCampben Analytical, file.			Website: www.mccampbell.com E-mail: main@mccampbell.com				
Essel Technology Service Client Project			D: #0569/2; AC Transit Date Sampled: 11/03/0				
9778 Broadmoore Drive		Div. 2		Date Received: 11/04/05			
•		Client Contact: Sher Guha		Date Extracted: 11/04/05			
San Ramon, CA	A 943 <i>23</i>	Client P.O.:		Date Analyzed: 11/07/05			
			actable Hydrocarbons	ıs Diesel*	Work O	rdor (	1511004
Extraction method: SV			methods: SW8015C			OF	% SS
Lab ID	Client ID	Matrix	TPH(d)	·		)I'	/0 33
0511094-001A	MW-5	w	1500,b,	g 		ı	91
		<u> </u>					
	orting Limit for DF =1;	50			_ ~~~ ~~	g/L	
ND means not detected at or above the reporting limit		S	NA			N	IA.

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; I) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



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L.Y						
Essel Technology Service		oject ID: #0569/2; AC Transit	Date Sampled:	11/03/05		
9778 Broadmoore Drive	Div. 2	Div. 2		Date Received: 11/04/05		
	Client Co	Client Contact: Sher Guha Date E		11/05/05		
San Ramon, CA 94523	Client P.	O.:	Date Analyzed: 11/05/05			
	MTBI	E and BTEX by GC/MS*				
Extraction Method: SW5030B	An	alytical Method: SW8260B		Work Orde	τ: 0511094	
Lab ID	0511094-001B					
Client ID	MW-5			Reporting DF		
Matrix	W			Dr	-ı	
DF	1		44111	S	W	
Compound		Concentration		ug/kg	μg/L	
Benzene	ND			NA	0.5	
Ethylbenzene	ND			NA	0.5	
Methyl-t-butyl ether (MTBE)	5.7			NA	0.5	
Toluene	ND			NA	0.5	
Xylenes	ND			NA	0.5	
	Surr	ogate Recoveries (%)				
%SS1:	102					
%SS2:	102					
%SS3:	99					
Comments	· · · · · · · · · · · · · · · · · · ·					
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples	g/L, soil/sludge/solic in µg/wipe.	d samples in mg/kg, product/oil/non-aque	eous liquid samples an	d all TCLP & S	SPLP	

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05
San Ramon, CA 94523	Client Contact: Sher Guha	Date Extracted: 11/04/05
	Client P.O.:	Date Analyzed: 11/05/05-11/07/05

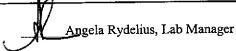
#### Inorganic Anions by IC\*

	indigament and any	
Extraction method: E300.1	Analytical methods: E300.1	Work Order: 0511094
Extraction metriod. E500.1		

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511094-001C	MW-5	w	ND	62	1	96
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	<u></u>					
· ·						

Reporting Limit for DF =1;	w	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: SW8021B/	PA Method: SW8021B/8015Cm Extraction: SW5030B							Spiked Sample ID: 0511093-001A		
0	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
МТВЕ	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001A	1/03/05 12:00 PM	11/05/05	11/05/05 8:28 PM	0511094-002A	11/03/05	11/05/05	11/05/05 9:01 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: SW8015C	E	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

 $All\ target\ compounds\ in\ the\ Method\ Blank\ of\ this\ extraction\ batch\ were\ ND\ less\ than\ the\ method\ RL\ with\ the\ following\ exceptions:$ 

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001A	1/03/05 12:00 PM	11/04/05	11/07/05 4:06 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: \$W8260B	E	Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Allalyto	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18898 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed

0511094-001B 1/03/05 12:00 PM 11/05/05 11/05/05 1:35 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511094

EPA Method: E300.1	800.1 Extraction: E300.1 BatchID: 18820 Spiked Sample ID:					ple ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
7 mary to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511094-001c	1/03/05 12:00 PM	11/04/05	1/05/05 12:09 AM	0511094-001C	1/03/05 12:00 PM	11/04/05	11/07/05 5:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Wat HOLD-5 McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 TURN AROUND TIME Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR Telephone: (877) 798-1620 GeoTracker EDF PDF Excel Write On (DW) Fax: (925) 798-1622 Report To: Silen Gotto Bill To: ESSECTER Analysis Request Company: Esse TERNOLOGY SERVICES PAGE. Other Comm 9778 BREADMENTE Dr. SAN PAMER CA. 94583. EPA 608 / 8081 PCB's ONLY; Aradors / Congeners Filter EPA 524.2 / 624 / 6260 ) VOCS) & TEX + HTBE \$ E-Mail: Essecter ISCRVIESE art less Sample Tele: (415 ) 794-1960 Total Petroleum Oil & Grease (1664 / 5520 Fax: (925)833-7977 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Me Project #: 0.569/2 EPA 502.2 / 601 / 8010 / 8021 (HVOCs) EPA 515 / 8151 (Acidic Cl Herbicides) Project Name: Ac Tember. Div. 2. analysi 8270 SIM / 8310 (PAHs / PNAs) Project Location: EMERIVILE 505/ 608 / 8081 (Cl Pesticides) Yes / N EPA 507 / 8141 (NP Pesticides) Lead (200.7 / 200.8 / 6010 / 6020) Sampler Signature: 150 Ka SAMPLING METHOD MATRIX Type Containers TPH as Diesel/ Motor PRESERVED LOCATION/ SAMPLE ID MTBE / BTEX Field Point Name Sludge Date Time HNO, Other HCL ICE NW501-06 Buyed 1220 VOA: x a X ٨ X MW507-08 X Aus 2 X Ŕ X MW509 Port X X TRIP QUAK 12.1 Relinquished By: Date: Time: Received By Sher Guids. ICE/to 11/4 COMMENTS: 11-15 GOOD CONDITION Relinquished By: HEAD SPACE ABSENT Date: Received By: Time: DECHLORINATED IN LAB

Relinquished By:

Date:

Time:

Received By:

APPROPRIATE CONTAINERS

VOAS O&G METALS OTHER

PRESERVED IN LAB



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				Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Techno	logy Service		Client Project ID: Transit Div. 2	D: #056912; Ac Date Sampled: 11/03/05						
9778 Broadn	noore Drive		Transit Div. 2		Date Received: 11	/04/05				
San Ramon, (	CA 94523		Client Contact: Sh	er Guha	Date Extracted 11	/06/05-11/	09/05			
			Client P.O.:		Date Analyzed 11.	/06/05-11/	09/05			
Extraction method:		iine Rai		tile Hydrocarbons as ( ethods: SW8015Cm	Gasoline*	Work Order:	0511104			
Lab ID	Client ID	Matri	х	TPH(g)		DF	% SS			
001 A	MW-6	W		750,a		1	115			
002A	Trip Blank	W		ND		ì	101			
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		<u>:</u>	:							
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Reporting Limit for DF =1:  ND means not detected at or	W	50		μg/L
above the reporting limit	S	NA	:	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe. product/oil/non-aqueous liquid samples in mg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment: j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas), m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

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IVI	Campuen Anaiyu	cai, inc.	Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Techno	logy Service	Client Project II Div. 2	: #056912; Ac Transit	Date Sampled: 11/03					
9778 Broadm	100re Drive	<u></u>		Date Received: 11/04	·/U5				
Can Daman (	CA 04522	Client Contact:	Sher Guha	Date Extracted: 11/04	/05				
San Ramon, (	JA 94323	Client P.O.:		Date Analyzed: 11/07	//05				
	Diesel Rang	ge (C10-C23) Ext	actable Hydrocarbons	as Diesel*		·			
Extraction method:		Analytica	methods: SW8015C		ork Order:				
Lab ID	Client ID	Matrix	TPH(d	)	DF	% SS			
0511104-001A	MW-6	w	2000,k	:	5	105			
				·					
<u></u>									
					-	<u> </u>			
				·					
					-				
					<u> </u>	-			
						ļ			
					ļ	<del> </del>			
						<u> </u>			
Do.	eporting Limit for DF =1;	337	50			ıg/L			
l Ke	porting Limit for Dr =1,	W	30		F	15/L			

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

\_\\

Angela Rydelius, Lab Manager



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Ly						
Essel Technology Service		oject ID:	#056912; Ac Transit	Date Sampled:	11/03/05	
9778 Broadmoore Drive	Div. 2			Date Received:	11/04/05	
G., B., CA 04532	Client Co	ntact: Sh	ner Guha	Date Extracted:	11/07/05	
San Ramon, CA 94523	Client P.	0.:		Date Analyzed:	11/07/05	
Extraction Method: SW5030B		and BT	EX by GC/MS* d: SW8260B		Work Ord	er: 0511104
Lab ID	0511104-001B					· · · · · · · · · · · · · · · · · · ·
Client ID	MW-6		 		Reporting	
Matrix	W		1		DF	=1
DF	1				S	W
Compound			Concentration		ug/kg	μg/L
Benzene	13				NA	0.5
Ethylbenzene	2.9				NA	0.5
Methyl-t-butyl ether (MTBE)	1.4				NA	0.5
Toluene	1.9				NA	0.5
Xylenes	4.6				NA	0.5
	Surr	ogate Rec	coveries (%)			
%SS1:	90					
%SS2:	92					
%SS3:	98					
Comments						
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples i	/L, soil/sludge/solid n μg/wipe.	samples in	mg/kg, product/oil/non-aque	ous liquid samples and	d all TCLP & S	SPLP

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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MICC	McCampben Analytical, Inc.			Website: www.mccaπpbell.com E-mail: main@mccampbell.com					
Essel Technology	/ Service		oject ID: #056912;	Ac Transit	Date Sampled	i: 11/03/05			
9778 Broadmoore	e Drive	Div. 2			Date Receive	d: 11/04/05			
San Daman CA (	04522	Client Co	Client Contact: Sher Guha			d: 11/04/05	<u></u>		
San Ramon, CA	94323	Client P.C	D.:		Date Analyze	d: 11/05/05-1	1/07/05		
Extraction method: E300	.1	Inorganic Anions by IC*  Analytical methods: E300.1				Work Ot	der: 0511104		
Lab ID	Client ID	Matrix	Nitrate as N		Sulfate	DF	% SS		
0511104-001C	MW-6	w	ND		16	1	95		
					····				
							-		
							<u> </u>		
			· · · · · · · · · · · · · · · · · · ·						
	·				<u>-</u>				
Reporting	Limit for DF =1;	W	0.1		0.1	n	ng/L		

, , , , , , , , , , , , , , , , , , ,				
ND means not detected at or			374	ma/Ka
	1 S	NA '	NA '	mg/Ng
above the reporting limit	1 5	- 12 -		
	·	·	<u> </u>	

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8021B/8015Cm Extraction: SW5030B					BatchID: 18903			Spiked Sample ID: 0511100-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130	
МТВЕ	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130	
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130	
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130	
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130	
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130	
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 18903 SUMMARY

Sample 1D	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001A	11/03/05 1:35 AM	11/09/05	1/09/05 12:30 PM	0511104-002A	11/03/05	11/06/05	11/06/05 6:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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# QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8015C	E	xtraction	SW3510	С	Batcl	hlD: 18894		Spiked San	ple ID: N/A	
Analyta	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed	
0511104-001A	11/03/05 1:35 AM	11/04/05	11/07/05 4:06 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

\_\_\_QA/QC Officer



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### **QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: SW8260B	E	Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A			
Analyta	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
Analyte	µg/∟	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD		
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130		
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130		
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130		
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130		
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130		
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001B	11/03/05 1:35 AM	11/07/05	11/07/05 1:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels



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### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511104

EPA Method: E300.1	E	xtraction	: E300.1		Batc	hID: 18902	2	Spiked San	nple ID: N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	l	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511104-001c	11/03/05 1:35 AM	11/04/05	11/05/05 5:47 AM	0511104-001C	11/03/05 1:35 AM	11/04/05	11/07/05 9:09 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

VOAS O&G METALS OTHER

#### McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 RUSH 24 HR 48 HR 72 HR 1 5 D. Website: www.mccampbell.com Email: main@mccampbell.com GeoTracker EDF PDF Excel Write On (DW) Telephone: (877) 798-1620 Fax: (925) 798-1622 Report To: Stee Colla Bill To: Assiste The Analysis Request Other Comm Company: Emil Telypology Janville Jane. EPA 608 / 8082 PCB's ONLY; Arociors / Congeners Total Petroleum Oil & Grease (1664 / 5520 E/B&F) Filter 9772 Demonioode DR. Som Roman, Gr. 98 523 EPA 514.21 / 674 (8260) NOCS) GIEX + M.TBE Sampl E-Mail: A Control of Control of Green Con CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6010) for Me Tele: (4/5) 294-1960. Fax: (925)238-2977 MTBE / BTEX ONLY (EPA 602 / 8021) analys EPA 515 / 8151 (Acidic Cl Herbicides) Total Petroleum Hydrocarbons (418.1) Project #: 620/2 Project Name: Ac Tomber Div 2 Yes / h EPA 505/ 609 / 8081 (Cl Pesticides) Project Location: Loubky VIII E. Lead (200.7 / 200.8 / 6010 / 6020) EPA 525.2 / 625 / 8270 (SVOCs) EPA 507 / 8141 (NP Pesticides) Sampler Signature: метнор SAMPLING MATRIX Type Containers PRESERVED Containers LOCATION SAMPLE ID Field Point Name Date Time HNO. Other Other HCL ICE Soil Air Excurat a/2And $\lambda_{i_{1}}^{t}$ 1/1/1 Relinquished By: Date: Time: Received By: ICEM° ~ COMMENTS: GOOD CONDITION W Carto. 11.15 HEAD SPACE ABSENT Relinquished By: Date: Timer Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB

Relinquished By:

Date:

Time:

Received By:



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Essel Technology Service	Client Project ID: #056912; AC	Date Sampled: 11/03/05
9778 Broadmoore Drive	Transit Div. 2	Date Received: 11/04/05
G 7 G 4 G 4 G 6 G	Client Contact: Sher Guha	Date Extracted: 11/06/05-11/07/05
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/06/05-11/07/05
Gaso	line Range (C6-C12) Volatile Hydrocarbons	as Gasoline*

tion method: SW			platile Hydrocarbons as Gasoline al methods: SW8015Cm	Work Order: 051
Lab ID	Client ID	Matrix	TPH(g)	DF %
001A	MW-7	w	310,m	1
002A	Trip Blank	W	ND	1 1
-				
Reporting I	Limit for DF =1;	W	50	μg/L
	not detected at or reporting limit	S	NA	NA

above the reporting limit	S	NA	NA
* water and vapor samples and all TCLP & :	SPLP extracts	s are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/w	ripe,

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/studge/solid samples in mg/kg, wipe samples in µg/wipe product/oil/non-aqueous liquid samples in mg/L.

M

Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Essel Techno	ology Service		D: #056912; AC	Date Sampled: 11/	03/05	
9778 Broadn	noore Drive	Transit Div. 2		Date Received: 11/	04/05	
San Damon	CA 04522	Client Contact:	Sher Guha	Date Extracted: 11/	04/05	
San Ramon,	CA 94323	Client P.O.:		Date Analyzed: 11/	04/05	
Extraction method:		-	tractable Hydrocarbons		Work Order:	0511097
Lab ID	Client ID	Matrix	TPH(d		DF	% SS
0511097-001A	MW-7	w	140,d,	b	1	103
						1
Re	porting Limit for DF =1;	w	50			.g/L

Reporting Limit for DF=1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~ I vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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Essel Technology Service		roject ID: #056912; AC	Date Sampled:	11/03/05	•
9778 Broadmoore Drive	Transit I	JIV. 2	Date Received:	11/04/05	
San Ramon, CA 94523	Client Co	ontact: Sher Guha	Date Extracted:	11/07/05	
San Ramon, CA 94323	Client P.	O.:	Date Analyzed:	11/07/05	
Extraction Method: SW5030B		E and BTEX by GC/MS* alytical Method: SW8260B		Work Ord	ler: 0511097
Lab ID	0511097-001B				
Client ID	MW-7			Reporting	Limit for
Matrix	W		· :	DF	i = j
DF	1			S	W
Compound		Concentration		ug/kg	μg/L
Benzene	ND			NA	0.5
Ethylbenzene	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	2.3			NA	0.5
Toluene	ND			NA	0.5
Xylenes	ND			NA	0.5
	Surr	ogate Recoveries (%)			
%SS1:	102				
%SS2:	99				
%SS3:	110				
Comments	- 200 ( 100				
* water and vapor samples are reported in µ	g/L, soil/sludge/solid	samples in mg/kg, product/oil/non-aque	ous liquid samples and	all TCLP & S	SPLP

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



extracts are reported in mg/L, wipe samples in µg/wipe.



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Mec	ampoen Ana	iyucai, inc	Webs	Website: www.mccampbell.com E-mail: main@mccampbell.com							
Essel Technolog	y Service	Client Pr Transit I	oject ID: #056912; A	C Date Sampled:	11/03/05						
9778 Broadmoo	те Drive	I ransit L	JIV. Z	Date Received:	Date Received: 11/04/05						
San Ramon, CA	94523	Client Co	ontact: Sher Guha	Date Extracted:	11/04/05						
Sun Rumon, Cr	<i></i>	Client P.	0.:	Date Analyzed:	11/05/05						
Extraction method: E30	0.1		organic Anions by IC*		Work Or	der: 0511097					
Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS					
0511097-001C	MW-7	w	ND	3.1	1	94					
	. ,,										

Reporting Limit for DF =1;	w	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: \$W8021B	/8015Cm E	xtraction: SW5030B			Batc	BatchID: 18900			Spiked Sample ID: 0511093-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD % RPD	LCS	LCSD	LCS-LCSD % RPD	Acceptance Criteria (%)			
, ilisiyee	μg/L	μg/L	% Rec.	% Rec.		% Rec.	% Rec.		MS/MSD	LCS / LCSC		
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130		
мтве	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130		
Benzene	. ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130		
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130		
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130		
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130		
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001A	11/03/05 1:06 PM		11/07/05 6:52 PM	0511097-002A	11/03/05	11/06/05	1/06/05 12:19 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: SW8015C	Ε	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	μg/L	μg/L	% Rec. % Rec.		% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001A	11/03/05 1:06 PM	11/04/05	1/04/05 10:53 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



NONE

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### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: SW8260B	E	Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD % RPD	LCS	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
,	μg/L	μg/L	% Rec.	% Rec.		% Rec.			MS / MSD	LCS / LCSD		
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130		
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130		
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130		
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130		
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130		
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001B	11/03/05 1:06 PM	11/07/05	11/07/05 5:31 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511097

EPA Method: E300.1	d: E300.1 Extraction: E300.1				BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	mg/L	mg/L mg/L % Rec.		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### **BATCH 18902 SUMMARY**

Sample iD	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511097-001c	11/03/05 1:06 PM	11/04/05	11/05/05 1:41 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

WELL AT MW= 05/109-McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR Telephone: (877) 798-1620 GeoTracker EDF 📮 PDF 📮 Excel 📮 Write On (DW) 📮 Fax: (925) 798-1622 Report To: Silen Guila. Bill To: IssactEu. Analysis Request Company: Esse Technology Stevile INC. Other Comn 9778 BRIDMARKE DR. SAN RAMON, CA 94583 8/B&F) EPA 608 / 8082 PCB's ONLY; Arociors / Congeners 8015) Filter E-Mail: Esserting Seports ( ) and low. Sampl Tele: (415) 794-1960 CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) Fax: (325 ) 833 - 79 77. LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Mc MTBE / BTEX ONLY (EPA 602 / 3021) Project #: 0569/2. Project Name: ACTRONST DIV 2 EPA 515 / 8151 (Acidic CI Herbicides) analys Project Location: Englisher 505/ 608 / 8081 (Cl Pesticides) Yes / I EPA 525.2 / 625 / 8270 (SVOCs) Lead (200.7 / 200.8 / 6010 / 6020) EPA 507 / 8141 (NP Pesticides) EPA 524.2 / 624 (8260) VOCs) Sampler Signature: SAMPLING METHOD MATRIX Type Containers PRESERVED # Containers LOCATION/ SAMPLE ID Field Point Name Sludge Date Time Other ICE HNO, Other HCL Air 1106 Everyli Milm. 3 VOM 2 ang NO y". UW707-KX X. Aler Val χ Relinquished By: Date: Received By: Time: Den Conho ICE/to COMMENTS: 11-15 GOOD CONDITION Relinquished By: HEAD SPACE ABSENT Date: Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS Relinquished By: PRESERVED IN LAB Date: Time: Received By:

VOAS O&C METALS



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Essel Technology Service	Client Project ID: #056912; AC	Date Sampled: 11/03/05
9778 Broadmoore Drive	Transit Div. 2	Date Received: 11/04/05
Q 04.04522	Client Contact: Sher Guha	Date Extracted: 11/05/05-11/09/05
San Ramon, CA 94523	Date Received: 11/04/05  Client Contact: Sher Guha  Date Extracted: 11/05/05-11/09/	Date Analyzed: 11/05/05-11/09/05
	** (O( O(A) T)   (P) T)	G

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*  raction method: SW5030B Analytical methods: SW8015Cm Work Order: 0511092										
Lab ID	Client ID	Matrix	TPH(g)	DF	% S					
001A	MW-8	w	150,m	1	100					
002A	Trip Blank	W	ND	1	98					
		1								
	<del></del>				-					
					,					
Reporting	Limit for DF =1;	W	50		ιg/L					
ND means	not detected at or	S	NA		NA					

Reporting Countries Dr. 1,	**	30	P-0-
ND means not detected at or above the reporting limit	S	NA	NA
			*

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.



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			Website: www.mcca	mpbell.com E-mail: main@mccamp	en.com	
Essel Technol	ogy Service	Client Project ID Transit Div. 2	Date Sampled: 11/03/0	/05		
9778 Broadme	oore Drive	Transit Div. 2		Date Received: 11/04/0	)5	
Cam Daman C	N 04522	Client Contact: S	)5			
San Ramon, C	.A 94323	Client P.O.:	)5			
		e (C10-C23) Extr	actable Hydrocarbons	as Diesel*	k Order:	0511002
Extraction method: S			methods: SW8015C			% SS
Lab ID	Client ID	Matrix	TPH(d		DF	
0511092-001A	MW-8	w	280,d,ł	)	1	92
_						
; ;						
					2	
<u> </u>						
						-
L						
	porting Limit for DF =1; means not detected at or	W	50			ıg/L
al	bove the reporting limit	S	NA		]	NA
						- 1

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

4

Angela Rydelius, Lab Manager



Toluene

Xylenes

# McCampbell Analytical, Inc.

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Essel Technology Service		Client Project ID: #056912; AC		Date Sampled: 11/03/05			
9778 Broadmoore Drive	Transit L	Transit Div. 2  Date Rec			eceived: 11/04/05		
G B CA 04502	Client Co	ontact: Sher Guha	Date Extracted:	11/05/05			
San Ramon, CA 94523	Client P.	O.:	Date Received: 11/04/05     Date Extracted: 11/05/05     Date Analyzed: 11/05/05     Work Order: 0511092     Reporting Limit for DF = 1     S				
Extraction Method: SW5030B		E and BTEX by GC/MS* alytical Method: SW8260B		Work Ord	er: 0511092		
Lab ID	0511092-001B						
Client ID	MW-8						
Matrix	W		and the second s	] DF	=[		
DF	1			S	W		
Compound		Concentration		ug/kg	μg/L		
Benzene	ND			NA	0.5		
Ethylbenzene	ND			NA	0.5		
Methyl-t-butyl ether (MTBE)	0.69			NA	0.5		
	<del> </del>			<del>                                     </del>			

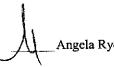
# Surrogate Recoveries (%)

Comments			
%SS3:	106		
%SS2:	98		
%SS1:	100		

<sup>\*</sup> water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND

ND



0.5

0.5

NA

NA

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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McCa	ampbell Anal	iyticai, inc.	Website	Website: www.mccampbell.com E-mail: main@mccampbell.com					
Essel Technology	Service		oject ID: #056912; AC	Date Sampled:	11/03/05				
9778 Broadmoore	: Drive	Transit D	ıv. Z	Date Received:	Date Received: 11/04/05				
C D CA 0	14533	Client Co	ntact: Sher Guha	Date Extracted:	11/04/05				
San Ramon, CA 9	14323	Client P.0	O.:	Date Analyzed:	11/04/05-1	1/07/05			
Extraction method: E300.	1		organic Anions by IC*		Work Or	der: 0511092			
Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS			
0511092-001C	MW-8	W	ND	24	1	110			
	· · · · · · · · · · · · · · · · · · ·								
	<u> </u>								
		· · · · · · · · · · · · · · · · · · ·		0.1		/T			

Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8021B/	PA Method: SW8021B/8015Cm Extraction: SW5030B							Spiked Sample ID: 0511093-001A		
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
Analyte	μg/L	µg/L	ug/L % Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
MTBE	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
Ountpio 15				1 0511002 0024	11/03/05	11/09/05	11/09/05 6:45 PM
0511092-001A	1/03/05 12:45 PM	11/05/05	11/05/05 3:59 PM	0511092-002A	11/03/03		

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(blex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8015C	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 18894 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed

0511092-001A 1/03/05 12:45 PM 11/04/05 11/05/05 5:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: SW8260B	Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS	LCSD	LCS-LCSD % RPD	Acceptance Criteria (%)	
Allalyte	μg/L					% Rec.	% Rec.		MS/MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001B	1/03/05 12:45 PM	11/05/05	1/05/05 12:10 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511092

EPA Method: E300.1	E	Extraction: E300.1				BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115	
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115	
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511092-001c	1/03/05 12:45 PM	11/04/05	1/04/05 11:08 AM	0511092-001C	1/03/05 12:45 PM	11/04/05	11/07/05 4:33 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

\_\_\_\_\_01582 --- 054992--WELL # MW 8 McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 TURN AROUND TIME Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR Telephone: (877) 798-1620 GeoTracker EDF D PDF D Excel D Write On (DW) Fax: (925) 798-1622 Report To: SHERE GOVA Bill To: Essee TEK Analysis Request Company: E suce TEMPOLOGY STRVICES INC Other Comn 9773 BROADYOURE DR. SHOW RAMON CA. 94523 E/B&F) 1272K Filter E-Mail: Lesse Teches Miles and Law Sampl Tele: (415 ) 794-1960 Fax: (935 ) 833 - 7977 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Me Project #: 656912 EPA 524.21 624 (8260) VOCS) RIEX Project Name: AC Proser Dix 2 EPA 515 / 8151 (Acidic CI Herbicides) analys 8270 SIM / 8310 (PAHs / PNAs) Project Location: Guery VILLE. 505/ 608 / 8081 (C1 Pesticides) Yes / P Lead (200.7 / 200.8 / 6010 / 6020) EPA 507 / 8141 (NP Pesticides) Sampler Signature: SUPER SAMPLING METHOD Type Containers MATRIX Total Petroleum Oil & PRESERVED # Containers LOCATION/ SAMPLE ID Field Point Name Time Sludge Date Other HINO, HCL ICE Air EPA NW801-06 Everynle 11/3 12:45 VOR y V 1/10807-08 NA X MWBOG PRY K & X Val Relinquished By: Date: Time: Received By: ICE/t° Sux Gaha 11/4 COMMENTS: 11-15 GOOD CONDITION V Relinquished By: HEAD SPACE ABSENT Dates Time: Received By; DECHLORINATED IN LAB APPROPRIATE CONTAINERS Relinquished By: PRESERVED IN LAB Date: Time: Received By:

VOAS O&G METAIC OTTER



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		<u> </u>		
Essel Technology Service	Client Project ID: #0569/2; AC Transit	Date Sampled: 11/03/05		
9778 Broadmoore Drive	Div. 2	Date Received: 11/04/05		
	Client Contact: Sher Guha	Date Extracted: 11/07/05		
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/07/05		
Gasol	line Range (C6-C12) Volatile Hydrocarbons as	Gasoline*		
Extraction method: SW5030B	Analytical methods: SW8015Cm	Work Order: 0511103		
		22 101 22		

Lab ID	Client ID	Matrix	TPH(g)		DF	% SS
001A	MW-9	w	ND	·	i	105
002A	TRIP BLANK	w	ND		1	103
_						
						+

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

\_\_Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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M	cCampbell Analyti	cai, inc.	Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Techno	ology Service	1 -	D: #0569/2; AC Transit	Date Sampled: 11/03	/05				
9778 Broadn	noore Drive	Div. 2		Date Received: 11/04/05					
S D	CA 04592	Client Contact:	Sher Guha	Date Extracted: 11/04/05					
San Ramon,	CA 94523	Client P.O.:		Date Analyzed: 11/05	/05				
Extraction method:			ractable Hydrocarbons		ork Order:	0511103			
Lab ID	Client ID	Matrix	Matrix TPH(d)						
0511103-001A	MW-9	w	470,g,l	)	1	106			
-									
						ļ			
					1				
	eporting Limit for DF =1;	W	50		μ	ıg/L			
	ND means not detected at or		NA		1	NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

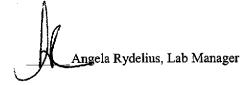
Angela Rydelius, Lab Manager



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Website: www.mccampbell.com E-mail: main@mccampbell.com

Essel Technology Service		roject ID: #0569/2; AC Transit	Date Sampled:	11/03/05			
9778 Broadmoore Drive	Div. 2		Date Received:	11/04/05			
Can Dames: CA 04522	Client Co	ontact: Sher Guha	Date Extracted: 11/07/05				
San Ramon, CA 94523	Client P.	O.:	Date Analyzed:	11/07/05			
Extraction Method: SW5030B		E and BTEX by GC/MS* alytical Method: SW8260B		Work Order: 0511103			
Lab ID	0511103-001B						
Client ID	MW-9			Reporting			
Matrix	w			DF			
DF	1			s	W		
Compound		Concentration	ug/kg	μg/L			
Benzene	ND			NA	0.5		
Ethylbenzene	ND			NA	0.5		
Methyl-t-butyl ether (MTBE)	4.8			NA	0.5		
Toluene	ND			NA	0.5		
Xylenes	ND			NA	0.5		
	Surr	ogate Recoveries (%)					
%SS1:	108				<u> </u>		
%SS2:	105						
%SS3:	105						
Comments							

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.



<sup>\*</sup> water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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MIC	Campbell Analyti	cai, inc	•	Telephone : Website: www.mcca	925-798-1620 Fax: 925 mpbell.com E-mail: main	- /98-1622 @mccampbell.c	om	
Essel Technol	logy Service		roject ID:	#0569/2; AC Transit	Date Sampled:	11/03/05		
9778 Broadme	oore Drive	Div. 2			Date Received: 11/04/05			
San Ramon, C	CA 94523	Client Co	ontact: Sh	er Guha	Date Extracted:	11/04/05		
		Client P.	.0.:		Date Analyzed:	11/05/05-1	1/07/05	
Extraction method: I	E300.1		organic Ar	nions by IC*		Work Or	der: 0511103	
Lab ID	Client ID	Matrix	Nitra	te as N	DF	% SS		
0511103-001C	MW-9	w	0	.11	28	1	91	
			<b>~-~</b>					
			<del> </del>					
						1		
Report	ting I imit for DE =1:	W	(	) 1	Λ1		~/Т	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.1	0.1	mg/L
	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: SW8021B/	/8015Cm E	Extraction: SW5030B			BatchID: 18903			Spiked Sample ID: 0511100-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)		
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.			MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130	
MTBE	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130	
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130	
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130	
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130	
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130	
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001A	1/03/05 12:30 PM	11/07/05	11/07/05 8:28 PM	0511103-002A	11/03/05	11/07/05	11/07/05 7:58 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: \$W8015C	E	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001A	1/03/05 12:30 PM	11/04/05	11/05/05 6:59 AM				

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644



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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: \$W8260B	E	xtraction	: SW5030	В	BatchID: 18898			Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
Allalyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001B	1/03/05 12:30 PM	11/07/05	11/07/05 9:41 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511103

EPA Method: E300.1	E	xtraction	: E300.1		BatchID: 18902			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
, 4.0., 40	mg/L	mg/L mg/L		% Rec. % Rec.		% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511103-001c	1/03/05 12:30 PM	11/04/05	11/05/05 5:16 AM	0511103-001C	1/03/05 12:30 PM	11/04/05	11/07/05 8:39 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhornogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

WELL H NW-9. McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 TURN AROUND TIME Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR Telephone: (877) 798-1620 72 HR 5 D. GeoTracker EDF 🔲 PDF 🖳 Excel 🖵 Write On (DW) 🖵 Fax: (925) 798-1622 Report To: SHER GUIN Bill To: Essecter. Analysis Request Company: Esse Trempiocy SERVICE INC. Other Comir 9778 BRONDWARE DR. Total Petroleum Oil & Grease (1664 / 5520 E/B&F) SAN RAMON. CA. 946580 Filter E-Mail: ZEETENSERVIESCOUR LON Sampl Tele: (4/5 ) 794-1960 Fax: (925) 233 - 7917. 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Me Project #: 0569/2 Project Name: Ac TRINSIT DIV. 2 EPA 524.2 / 624 /8260 NOCS) GIEX 515 / 8151 (Acidic Cl Herbicides) analys Project Location: EMERY VILLE. EPA 505/ 608 / 8081 (Cl Pesticides) Yes / N Sampler Signature: 525.2 / 625 / 8270 (SVOCs) 507 / 8141 (NP Pesticides) Lead (200.7 / 200.8 / 6010 / 6020) SAMPLING METHOD **MATRIX** Type Containers PRESERVED Containers LOCATION/ SAMPLE ID Field Point Name Sludge Date Time Other HNO, Other HCL ICE Soil Air EPA ! MU901 Energrale 11/3. 12-30 VOA 72 y! - 060 X. y/ 12-36 2 And XX X MW907 08 MR) 909 NA × TRIP BLANKS 139

Relinquished By:

Date: Time: Received By:

Relinquished By:

Date: Time: Received By:

Relinquished By:

Date: Time: Received By:

GOOD CONDITION UNITED SPACE ABSENT

HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

VOASA ORO TITO

COMMENTS:



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560

M M	Campbell An	alytic	cal, Inc.	Telephone: Website: www.mcca	Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Technol	logy Service			#0569/2; AC Transit	Date Sampled: 11/03	/05					
9778 Broadm	oore Drive		Div. 2		Date Received: 11/04	4/05					
San Dames (	TA 04522		Client Contact: Sh	ner Guha	Date Extracted: 11/05	/05					
San Ramon, C	JA 94323		Client P.O.:	Client P.O.: Date Analyzed: 11/05/05							
Extraction method:		line Ra		tile Hydrocarbons as (ethods: SW8015Cm		ork Order:	0511096				
Lab ID	Client ID	Matr	ix	TPH(g)		DF	% SS				
001A	MW-10	w		300,m		1	110				
002A	TRIP BLANK	w		ND		1	100				
							ļ				
-											

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560

M	cCampbell Analytic	cal, Inc.	Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Techno	ology Service		): #0569/2; AC Transit	Date Sampled: 11/03	/05				
9778 Broadn	noore Drive	Div. 2		Date Received: 11/04	/05				
San Ramon,	CA 94523	Client Contact:	Sher Guha	Date Extracted: 11/04	/05				
San Ramon,	OR 74323	Client P.O.:		Date Analyzed: 11/07	/05				
Extraction method:			ractable Hydrocarbons a methods: SW8015C	W	ork Order:				
Lab ID	Client ID	Matrix	TPH(d	)	DF	% SS			
0511096-001A	MW-10	w	600,a		ı	92			
			<u> </u>						
						ļ <u>-</u>			
					-				
					-				
					-				
					-				
					-				
	-				ļ <u>-</u> -	1			
					1	<u> </u>			
	eporting Limit for DF =1;  Description means not detected at or	W	50			ıg/L			
	have the reporting limit	S	NA			NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stodard solvent/mineral spirit.



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Essel Technology Service		oject ID:	#0569/	/2; AC Transit		11/03/05	
9778 Broadmoore Drive	Div. 2				Date Received:	11/04/05	
•	Client C	ontact: Sh	11/07/05				
San Ramon, CA 94523	Client P.	.O.:	11/07/05				
		E and BT				Work Ords	er: 0511096
Extraction Method: SW5030B  Lab ID	0511096-001B	alytical Metho	u: 5W826(			,, or City	
				· · · · · · · · · · · · · · · · · · ·			
Client ID	MW-10			1		Reporting DF	
Matrix	W						<del></del> :-
DF	1				1 B Operation	S	W
Compound			Conce	entration		ug/kg	μg/L
Benzene	ND					NA	0.5
Ethylbenzene	ND					NA	0.5
Methyl-t-butyl ether (MTBE)	4.1		1.73			NA	0.5
Toluene	ND					NA	0.5
Xylenes	ND					NA	0.5
	Suri	rogate Rec	overie	\$ (%)			
%SS1:	101						
%SS2:	100						
%SS3:	110						
Comments							
* water and vapor samples are reported in $\mu_s$ extracts are reported in mg/L, wipe samples	g/L, soil/sludge/soli in µg/wipe.	d samples in	mg/kg, p	roduct/oil/non-aque	ous liquid samples an	d all TCLP & S	SPLP

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

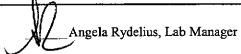
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.rpccampbell.com E-mail: main@mccampbell.cot

	Campoon many v			Website: www.mccampbell.com E-mail: main@mccampbell.com							
Essel Technolo	ogy Service			#0569/2; AC T	ransit	Date Sampled:	11/03/05				
9778 Broadmo	oore Drive	Div. 2				Date Received:	11/04/05				
San Ramon, C	A 94523	Client	Contact: Sh	er Guha		Date Extracted:	11/04/05				
Dan Kamon, C.	11 77323	Client	P.O.:			Date Analyzed:	11/05/05				
Extraction method: E	300.1		Inorganic Ai				Work Ore	der: 0511096			
Lab ID	Client ID	Matrix Nitrate as N				Sulfate	DF	% SS			
0511096-001C	MW-10	w	1	ND		0.78	1	92			
		<u>-</u>				·					
						· · · · · · · · · · · · · · · · · · ·					
	-										
								, F			
	ing Limit for DF =1;	W		0.1		0.1	m	g/L			
	ND means not detected at or above the reporting limit		S NA			NA	mg	/Kg			

\* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.





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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8021B/	В	BatchID: 18900			Spiked Sample ID: 0511093-001A					
Analyte	Sample	Spiked	ked MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
Monyto	μg/L	µg/L	% Rec. % Rec.		% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
мтве	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Вепzепе	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001A	11/03/05 2:15 AM	11/05/05	1/05/05 10:40 PM	0511096-002A	11/03/05	11/05/05	1/05/05 11:13 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8015C	Extraction: SW3510C					BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	µg/∟	μg/L	μg/L % Rec.		% RPD	% Rec. % Rec.		% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511096-001A	11/03/05 2:15 AM	11/04/05	11/07/05 2:58 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high gastrix or analyte content.

QA/QC Officer

DHS Certification No. 1644



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: SW8260B	E	xtraction	: SW5030	В	BatchID: 18898			Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511006 001B	11/03/05 2:15 AM	11/07/05	11/07/05 4:49 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511096

EPA Method: E300.1	Extraction: E300.1					BatchID: 18820			Spiked Sample ID: N/A			
Analyte	Sample Spiked MS		MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
Allalyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115		
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115		
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed	
0511096-001c	11/03/05 2:15 AM	11/04/05	11/05/05 1:10 AM					- 1

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

NECE MINICIO

APPROPRIATE CONTAINERS

VOAS O&G METALS OTHER

PRESERVED IN LAB

#### McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2 AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 RUSH 24 HR 48 HR 72 HR Website: www.mccampbell.com Email: main@mccampbell.com GeoTracker EDF PDF Excel Write On (DW) Telephone: (877) 798-1620 Fax: (925) 798-1622 Report To: 5/18/ GuitA Bill To: LSSETEK. Analysis Request Other Comi Company: ESSEE TECHNOLOGY SERVICE INC. E/B&F) Filter 2778 BROADWOORE DR. EPA 524.1 / 614 / 6160 NOCS) GIEX+4795 Same SAN RAMON, Ca. 94583. E-Mail Esset TEHSERVIE 6 avl low CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) LUFT 5 Metals (200.7 / 200.8 / 6910 / 6020) for M Total Petroleum Off & Grease (1664 / 5520 Tele: (415) 794-1960 Fax: (925) 833 - 7977 MTBE / BTEX ONLY (EPA 602 / 8021) analy EPA 515 / 8151 (Acidic Cl Herbicides) Project #: 0569/2. Project Name: Ac Temsir. Diy 2. Yes / EPA 505/ 608 / 8081 (Cl Pesticides) Project Location: 1774 47 TH St. Emerine Ca. TPH as Diesel/ Motor Oil (8015) Lead (200.7 / 200.8 / 6010 / 6029) EPA \$25.2 / 625 / 8270 (SVOCs) EPA 507 / 8141 (NP Pesticides) 150/file Sampler Signature: METHOD **MATRIX** SAMPLING Type Containers PRESERVED LOCATION/ SAMPLE ID Field Point Sludge Name Date Time Other Other HNO HCL Air NIWIO OF- 1 EMERIVE √0A MW1007 Amb K Y. POOL NN1009 \* TRIP OMERS 1111 Relinquished By: Time: Received By: Date: ICE#º COMMENTS: Shir Gura. GOOD CONDITION 11/15 HEAD SPACE ABSENT Relinquished By: Received By: DECHLORINATED IN LAB

Relinquished By:

Date:

Time:

Received By:



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560

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Essel Techno	logy Service			#056912; Ae Transit	Date Sampled:	11/03/	05		
9778 Broadm	100re Drive		Div.2		Date Received: 11/04/05				
San Ramon, (	TA 04523		Client Contact: Sh	ner Guha	Date Extracted:	11/06/05-11/09/05			
San Kamon, V	CR 94323		Client P.O.:		Date Analyzed:	11/06/	05-11/	09/05	
Extraction method;		line Ra	<b>-</b> '	tile Hydrocarbons as ( ethods: SW8015Cm	Gasoline*	Wo	rk Order:	0511099	
Lab ID	Client ID	Matr	ix	TPH(g)			DF	% SS	
001A	MW-11	w		ND,i			1	94	
002A	Trip Blank	w			1	102			
								_	
						:			
	<del></del>	<del></del>	<del>'</del>						

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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			website: www.mcca	троен.сот Е-пан: панадисса	ап@лесапрвен.сон							
Essel Techno	logy Service		#056912; Ae Transit	Date Sampled: 11/03	11/03/05							
9778 Broadm	noore Drive	Div.2		Date Received: 11/04	1/05							
San Ramon, (	~A 94523	Client Contact: S	her Guha	Date Extracted: 11/04	1/05							
San Ramon,	DR 77343	Client P.O.:		Date Analyzed: 11/05	1/05/05							
Extraction method:			ctable Hydrocarbons a		ork Order:	0511099						
Lab ID	Client ID	Matrix	TPH(d)		DF	% SS						
0511099-001A	MW-11	w	290,g,b	1	100							
-												
						<u> </u>						
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						<u> </u>						
Rej	porting Limit for DF =1;	w	50		μ	ıg/L						
ND al	means not detected at or bove the reporting limit	S	NA		NA							
* water samples :	are reported in μg/L, wipe samples i	n μg/wipe, soil/solid/slu	idge samples in mg/kg, produ	ct/oil/non-aqueous liquid san	ples in m	g/L, and						

all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stockard solvent/mineral spirit.



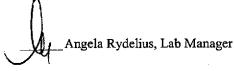
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Essel Technology Service		roject ID: #056912; Ae Transit	Date Sampled:	11/03/05						
9778 Broadmoore Drive	Div.2		Date Received:	11/04/05						
San Ramon, CA 94523	Client Co	ontact: Sher Guha	Date Extracted:	11/05/05						
оан Кашон, СА <i>94323</i>	Client P.	O.:	Date Analyzed:	11/05/05						
***	MTB	E and BTEX by GC/MS*								
Extraction Method: SW5030B	An	alytical Method: SW8260B		Work Ord	er: 0511099					
Lab ID	0511099-001B									
Client ID	MW-11			Reporting Limit for						
Matrix	W		***	DF	=1					
DF	1		!	S	w					
Compound		Concentration		ug/kg	μg/L					
Benzene	ND			NA	0.5					
Ethylbenzene	ND			NA	0.5					
Methyl-t-butyl ether (MTBE)	ND			NA	0.5					
Toluene	ND			NA	0.5					
Xylenes	ND			NA	0.5					
	Surr	ogate Recoveries (%)		-						
%SS1:	100									
%SS2:	101									
%SS3:	106									
Comments										
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples i	iп µg/wipe.		ous liquid samples and	all TCLP & S	SPLP					

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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	Campben Analyti		IV.	Website: www.mccampbell.com E-mail: main@mccampbell.co									
Essel Technolo	ogy Service		Project ID:	#056912; Ae	Transit	Date San	npled:	11/03/05					
9778 Broadmo	oore Drive	Div.2				Date Rec	eived:	11/04/05					
San Ramon, C	A 94523	Client	Contact: Sh	er Guha		Date Ext	racted:	11/04/05					
Can Rainon, C	4	Client	P.O.:			Date Ana	ılyzed:	11/05/05-1	1/07/05				
Extraction method: E	3300.1		Inorganic Ar					Work Or	der: 0511099				
Lab ID	Client ID	Matrix	Nitra	te as N		Sulfate		DF	% SS				
0511099-001C	MW-11	w	1	ND		21		1	93				
		ï				'							
Report	ling Limit for DF =1;	W		D.1		0.1		m	ıg/L				
ND me	ans not detected at or				-	37.4		<b>_</b>	-07-				

\* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

NA

# surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



NA

mg/Kg

above the reporting limit



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#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8021B/80	15Cm E	xtraction:	SW5030	В	Batc	hID: 18900	)	Spiked San	nple ID: 051	1093-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
·	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS/LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
МТВЕ	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	- 70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511098-001A	1/03/05 12:17 PM	11/06/05	1/06/05 12:51 AM	0511098-002A	11/03/05	11/06/05	11/06/05 1:24 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511099

EPA Method: SW8015C	E	xtraction:	SW3510	С	Batcl	hID: 18894	ļ	Spiked Sample ID: N/A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)			
Allalyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD			
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130			
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511099-001A	11/03/05 1:25 PM	11/04/05	11/05/05 1:17 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644



NONE

## McCampbell Analytical, Inc.

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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511098

EPA Method: SW8260B	E	xtraction	: SW5030	В	Batch	nID: 18898		Spiked Sample ID: 0511082-002A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)			
, mary to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD			
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130			
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130			
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130			
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130			
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130			
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 18898 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed
0511098-001B 1/03/05 12:17 PM 11/05/05 1:1/05/05 4:25 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511099

EPA Method: E300.1	E	xtraction	E300.1		Batc	hID: 18902	!	Spiked San	Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
, ,,,,,,,,	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115		
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115		
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511099-001c	11/03/05 1:25 PM	11/04/05	11/05/05 2:43 AM	0511099-001C	11/03/05 1:25 PM	11/04/05	11/07/05 7:06 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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SAMPLE ID	Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sindge	ICE	HCL	HINO3	Officer MTBB/BFEX	MTBE / BTEX ONLY (EP	TPH as Diesell/ Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors /	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 (8260) VOCS) & JEX	EPA 525.2 / 625 / 8270 (SVOCs)	BPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Unitate :		
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Essel Technology Service	Client Project ID: #056912; AC	Date Sampled: 11/03/05			
9778 Broadmoore Drive	Transit Div.2	Date Received: 11/04/05			
	Client Contact: Sher Guha	Date Extracted: 11/06/05-11/07/05			
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/06/05-11/07/05			
Gaso	oline Range (C6-C12) Volatile Hydrocarbons	as Gasoline*			

traction method: SW5030B Analytical methods: SW8015Cm				
Client ID	Matrix	TPH(g)	DF	% SS
MW-12	w	440,m,i	1	111
Trip Blank	W	ND	1	100
				<u> </u>
	MW-12	MW-12 W	MW-12 W 440,m,i	MW-12 W 440,m,i 1

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA
1 5			

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Wicca	mpben Anary	rucal, inc.	Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Technology S	Service	Client Project ID: Transit Div.2	#056912; AC	Date Sampled: 11/0	3/05				
9778 Broadmoore	Drive	Transit Div.2		Date Received: 11/0	4/05				
Can Dames CA 04	1522	Client Contact: S	her Guha	Date Extracted: 11/0	4/05				
San Ramon, CA 94		Client P.O.:	-	Date Analyzed: 11/0	5/05				
		ange (C10-C23) Extra			••••	•			
Extraction method: SW351			nethods: SW8015C		ork Order:				
Lab ID	Client ID	Matrix	ТРН	(d)	DF	% SS			
0511105-001A	MW-12	w	120,0	1,b,i	1	93			
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Reporting	Limit for DF =1;	w	5	0	1 1	ıg/L			
ND means	not detected at or e reporting limit	S		A		NA.			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stod that solvent/mineral spirit.



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Essel Technology Service		roject ID: #056912; AC	Date Sampled:	: 11/03/05		
9778 Broadmoore Drive	Transit I	Nv.2	Date Received:	11/04/05	"	
G D G 04500	Client Co	ontact: Sher Guha	Date Extracted:	l: 11/07/05		
San Ramon, CA 94523	Client P.	0.:	Date Analyzed:	11/07/05		
		E and BTEX by GC/MS*				
Extraction Method: SW5030B		alytical Method: SW8260B		Work Ord	er: 0511105	
Lab ID	0511105-001B		:			
Client ID	MW-12			Reporting		
Matrix	W			Dr	=1	
DF	1			S	W	
Compound		Concentration		ug/kg	μg/L	
Benzene	ND			NA	0.5	
Ethylbenzene	ND			NA	0.5	
Methyl-t-butyl ether (MTBE)	6.6			NA	0.5	
Toluene	ND			NA	0.5	
Xylenes	ND			NA	0.5	
	Surr	ogate Recoveries (%)				
%SS1:	101					
%SS2:	97					
%SS3:	107					
Comments						
* water and vapor samples are reported in µ	g/L, soil/sludge/solid	samples in mg/kg, product/oil/non-aq	ueous liquid samples and	all TCLP & S	SPLP	

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~! vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



extracts are reported in mg/L, wipe samples in μg/wipe.



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B			Website	Website: www.mccampbell.com E-mail: main@mccampbell.com					
Essel Technology	Service	Client Pro	oject ID: #056912; AC	Date Sampled:	11/03/05				
9778 Broadmoore	Drive	1 ransit D		Date Received:	11/04/05				
San Ramon, CA 9	M522	Client Co	ntact: Sher Guha	Date Extracted:	Date Extracted: 11/04/05				
San Ramon, CA 9	4323	Client P.C	D.:	Date Analyzed:	11/05/05				
Extraction method: E300.	1		organic Anions by IC*  lytical methods: E300.1		Work Or	der: 0511105			
Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS			
0511105-001C	MW-12	w	ND	3.7	1	93			
			,						
				lesses.					
Reporting	Limit for DF =1;	W	0.1	0.1	m	ıg/L			
	not detected at or	S	NA	NA	m	g/Kg			

\* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



above the reporting limit



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

#### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8021B/	EPA Method: SW8021B/8015Cm Extraction: SW5030B					BatchID: 18903			Spiked Sample ID: 0511100-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
•	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130	
МТВЕ	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130	
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130	
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130	
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130	
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130	
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001A	11/03/05	11/07/05	11/07/05 8:58 PM	0511105-002A	11/03/05	11/06/05	11/06/05 7:24 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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#### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8015C	W8015C Extraction: SW3510C			Batcl	BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001A	11/03/05	11/04/05	11/05/05 3:34 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: SW8260B	E	xtraction	SW5030	В	BatchiD: 18905			Spiked Sample ID: 0511114-004A		
Analyte	Sample	Spiked	мѕ	MS MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	101	99.3	1.77	97.2	96.8	0.382	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	98.5	2.92	94.4	94.4	0	70 - 130	70 - 130
Toluene	ND	10	111	109	2.09	88.6	88.2	0.372	- 70 - 130	70 - 130
%SS1:	103	10	100	100	0	98	99	1.83	70 - 130	70 - 130
%SS2:	95	10	100	100	0	96	96	0	70 - 130	70 - 130
%SS3:	96	10	104	103	0.465	104	100	4.07	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18905 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001B	11/03/05	11/07/05	11/07/05 3:23 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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#### QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511105

EPA Method: E300.1 Extraction: E300.1 BatchID: 18902						Spiked Sample ID: N/A					
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	criteria (%)	
, unaryto	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115	
Sulfate	N/A	1	N/A	N/A	· N/A	103	99	3.91	N/A	85 - 115	
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18902 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511105-001c	11/03/05	11/04/05	11/05/05 6:18 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

USINOS 814 WACC A N/70-72-

# McCAMPBELL ANALYTICAL, INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D7 PACHECO, CA 94553-5560

Website: <a href="www.mccampbell.com">www.mccampbell.com</a> Email: main@mccampbell.com
Telephone: (877) 798-1620 Fax: (925) 798-1622

Relinquished By:

Date:

Time:

Received By:

# CHAIN OF CUSTODY RECORD

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SAMPLE ID	Field Point Name		Time	# Containers	Type Containers	Water	Soil	Alr	Sludge	Other	ICE	HNO	Other Other	VERN HEEV		MTBE / BTEX C	TPH as Diesell/ Motor Oil (8015)	Total Petroleum Oif & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / (8260) NOCS) ATEX + HTOS	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Virgo 1	·Ì		
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APPROPRIATE CONTAINERS

PRESERVED IN LAB



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Essel Technology Service	,	Date Sampled: 11/03/05				
9778 Broadmoore Drive	Div,2	Date Received: 11/04/05				
a D	Client Contact: Sher Guha	Date Extracted: 11/06/05-11/07/05				
San Ramon, CA 94523	Client P.O.:	Date Analyzed: 11/06/05-11/07/05				

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

action method: S			olatile Hydrocarbons as Gasoline* al methods: SW8015Cm	Work Order:	051110	
Lab ID	Client ID	Matrix	TPH(g)	DF	% S	
001A	W-i	w	6200,a,i	3.3	102	
002A	Trip Blank	w	ND	1	10	
					ļ 	
				·		
Reporting	¿ Limit for DF =1;	W	50	μ	g/L	
	not detected at or	S	NA	1	NA	

above the reporting limit	S	NA NA		NA.
* water and vapor samples and all TCLP &	SPLP extracts	are reported in ug/L, soil/sludge/solid samples in mg/kg,	wipe samples in μg/v	vipe,

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

product/oil/non-aqueous liquid samples in mg/L.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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	F-3 vii 1			Website: www.mccampbell.com E-mail: main@mccampbell.com								
Essel Technolo	gy Service	·	Client Project ID: Div.2	#056912; AcTransit	Date Sampled: 11/03	/05						
9778 Broadmo	ore Drive		1)10.2		Date Received:							
San Ramon, CA	4 94523		Client Contact: Sh	er Guha	Date Extracted: 11/04	/05						
Outi Ration, Cr	, , , , , , , , , , , , , , , , , , ,		Client P.O.:		Date Analyzed: 11/05	/05						
Analytical methods:		sel (C10	-23) Range Extrac	table Hydrocarbons a		ork Order:	0511102					
Lab ID	Client ID	Matr	ix	TPH(d)		DF	% SS					
0511102-001A	W-1	w		2400,n,i		10	105					
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	Reporting Limit for DF =1; W ND means not detected at or			50 NA			ıg/L					
	above the reporting limit				NA							

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

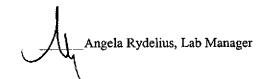
+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/inineral spirits; p) see Case Narrative.



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		<del> </del>					
Essel Technology Service		roject ID: #056912; AcTransit	Date Sampled: 11/03/05				
9778 Broadmoore Drive	Div.2		Date Received: 11/04/05				
San Ramon, CA 94523	Client C	ontact: Sher Guha	Date Extracted: 11/07/05				
Gan Ramon, CA 94323	Client P	O.:	11/07/05				
Extraction Method: SW5030B		E and BTEX by GC/MS*  alytical Method: SW8260B		Work Orde	er: 0511102		
Lab ID	0511102-001B						
Client ID	W-1		-	Reporting			
Matrix	W			DF	=l		
DF	. 1		The second secon	S	W		
Compound		Concentration		ug/kg	μg/L		
Benzene	7.2			NA	0.5		
Ethylbenzene	5.7			NA	0.5		
Methyl-t-butyl ether (MTBE)	0.73			NA	0.5		
Toluene	3.6			NA	0.5		
Xylenes	20			NA	0.5		
	Surr	ogate Recoveries (%)					
%SS1:	94						
%SS2:	101						
%SS3:	123						

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.



Comments

<sup>\*</sup> water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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La IVIC	Campben many ex			Website: www.mccampbell.com E-mail: main@mccampbell.com							
Essel Technol	ogy Service		Project ID:	#056912; Ac	Tтansit	Date Sampled:	11/03/05				
9778 Broadmo	oore Drive	Div.2				Date Received:	11/04/05				
San Ramon, C	'A 04523	Client	Contact: Sh	er Guha		Date Extracted: 11/04/05					
San Kamon, C	A 94323	Client	11/05/05								
Extraction method: E	3300.1		Inorganic An				Work On	der: 0511102			
Lab ID	Client ID	Matrix	Nitra	te as N		Sulfate	DF	% SS			
0511102-001C	W-1	w	0	.14		1.3	1	93			
Report	ting Limit for DF =1;	W		0.1		0.1	m	ıg/L			
l NTS							1	_			

Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8021B/	/8015Cm E	xtraction	SW5030	В	Batc	hID: 18903	1	Spiked San	nple ID: 051	1100-002A
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	criteria (%)
7 ii Liyeo	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	97.3	94	3.46	107	112	4.66	70 - 130	70 - 130
МТВЕ	ND	10	105	89.8	15.6	108	107	0.433	70 - 130	70 - 130
Benzene	ND	10	88.4	81	8.78	112	111	0.393	70 - 130	70 - 130
Toluene	ND	10	90.3	83	8.38	105	104	0.907	70 - 130	70 - 130
Ethylbenzene	ND	10	89.2	83.4	6.67	110	111	0.205	70 - 130	70 - 130
Xylenes	ND	30	90.3	85	6.08	100	100	0	70 - 130	70 - 130
%SS:	100	10	97	96	0.734	110	108	2.10	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001A	11/03/05 2:05 AM	11/07/05	11/07/05 9:40 PM	0511102-002A	11/03/05	11/06/05	11/06/05 6:19 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID:

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8260B	E	Extraction: SW5030B			BatchID: 18898			Spiked Sample ID: 0511082-002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
. I diye	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130
%\$\$1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001B	11/03/05 2:05 AM	11/07/05	11/07/05 4:06 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: SW8015C	E	Extraction: SW3510C				BatchID: 18894			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001A	11/03/05 2:05 AM	11/04/05	11/05/05 4:43 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high, matrix or analyte content.

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## QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511102

EPA Method: E300.1	E	xtraction	E300.1		Batc	hID: 18902		Spiked San	nple ID: N/A	
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	mg/L	mg/L mg/L		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	101	99.6	1.81	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	103	99	3.91	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	90	91	1.05	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### **BATCH 18902 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511102-001c	11/03/05 2:05 AM	11/04/05	11/05/05 4:45 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

/ \_\_QA/QC Officer

Water W-7 OSINOZ EFSR McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR 5 D.A Telephone: (877) 798-1620 Fax: (925) 798-1622 GeoTracker EDF PDF Excel Write On (DW) Report To: SHERE GRAD. Bill To: ESSEE TER. Analysis Request Other Comm Company: ESSER TRANCICEY SERVIE INC. 9778 BRONDINGERE Dr. SAN RAMON, CA. 94 583. E/B&F) Filter EPA 524.21 624 (8260) NOCS) &TEX+ MTBS Ż. E-Mail: Essertee STRUME Galler Sample Tele: (415) 794-1960. Total Petroleum Oll & Grease (1664 / 5520 LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) for Me Fax: (925 ) 833-7917 Project #: 0569/2 EPA 502.2 / 601 / 8010 / 8021 (HVOCs) analysi Project Name: Ac TRANSIT Div. 2. 8270 SIM / 8310 (PAHs / PNAs) Project Location: EmRIVICE. EPA 505/ 608 / 8081 (Cl. Pesticides) Yes / N Lead (200.7 / 200.8 / 6010 / 6020) EPA 525.2 / 625 / 8270 (SVOCs) Sampler Signature: MTBE / BTEX ONLY (EPA 150 KE METHOD SAMPLING MATRIX Type Containers PRESERVED LOCATION/ SAMPLE ID Field Point Name Sludge Date Time Other HNO, Other HCL ICE +\w/0/-11/3 Emperal 203 VIA A V 06 λ 义 Amb AX X 11109 Nor X Xi TRIP BLAND Vin. Relinquished By: Date: Received By: Time: ICE/t° COMMENTS: 11-0 GOOD CONDITION ~ Relinquished By: HEAD SPACE ABSENT Date: Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS Relinquished By: PRESERVED IN LAB Date: Time: Received By:

VOAS O&G METALS OTHER



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560

Mc	Campbell An	alytic	eal, Inc.	Telephone : Website: www.mcca	925-798-1620 Fax: 925-798-1 ampbell.com E-mail: main@mcc	522 mpbell.com	
Essel Technol	ogy Service		Client Project ID:	#0569/2; AC	Date Sampled: 11/0	3/05	
9778 Broadmo	oore Drive		Transite Div. 2		Date Received: 11/0	4/05	
San Ramon, C	'A 04523		Client Contact: Sh	ner Guha	Date Extracted: 11/0	5/05-11/	06/05
San Kamon, C	FX 74323		Client P.O.:		Date Analyzed: 11/0	5/05-11/	06/05
Extraction method: S		line Ra	_ ,	tile Hydrocarbons as ethods: SW8015Cm		Vork Order:	0511091
Lab ID	Client ID	Matr	ix	TPH(g)		DF	% SS
001A	W-3	w		ND,i		1	103
002A	TRIP BLANK	w		ND		1	98
	<u> </u>					ļ	
						ç	
				<u> </u>			

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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-Angela Rydelius, Lab Manager



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McCa	impoeii Anaiy	viicai, inc.	Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Technology	Service	Client Project II Transite Div. 2	D: #0569/2; AC	Date Sampled: 1					
9778 Broadmoore	Drive			Date Received: 1	1/04/05				
San Ramon, CA 94	4523	Client Contact:	Sher Guha	Date Extracted: 1	1/04/05				
San Ramon, CA 9	4323	Client P.O.:		Date Analyzed: 1	1/05/05	-			
Extraction method: SW35			ractable Hydrocarbo	ns as Diesel*	Work Order:	0511091			
Lab ID	Client ID	Matrix	TP	H(d)	DF	% SS			
0511091-001A	W-3	w	N	ID,i	1	91			
			.,,						
-									
						-			
						<del>                                     </del>			
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Reportin	g Limit for DF =1;	W		50		ug/L			
ND mean	is not detected at or	S		NA .		NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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Angela Rydelius, Lab Manager



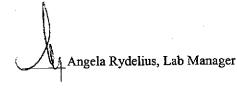
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Essel Technology Service		oject ID: #0569/	2; AC	Date Sampled:	11/03/05	
9778 Broadmoore Drive	Transite 1	Div. 2		Date Received:	11/04/05	
•	Client Co	ontact: Sher Guha	ì	Date Extracted:	11/04/05	
San Ramon, CA 94523	Client P.	O.:		Date Analyzed:	11/04/05	
	мты	E and BTEX by	GC/MS*		· · · · · · · · · · · · · · · · · · ·	
Extraction Method: SW5030B		alytical Method: SW8260	В	<del></del>	Work Orde	r: 0511091
Lab ID	0511091-001B	The state of the s		Land Company of the C		
Client ID	W-3				Reporting DF	
Matrix	W				Di	-ı
DF	1				S	w
Compound		Conce	entration		ug/kg	μg/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	1.2				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5
	Surr	ogate Recoverie	s (%)			en egisis a soul
%SS1:	103					
%SS2:	100					
%SS3:	103					
Comments	i					
* water and vapor samples are reported in µ extracts are reported in mg/L, wipe samples	g/L, soil/sludge/solic in µg/wipe.	l samples in mg/kg, p	roduct/oil/non-aque	ous liquid samples an	d all TCLP & S	SPLP

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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	11 COSTON 11 11 1		<u>~</u>				
Essel Technology Service	Client Project ID: #0569/2; AC	Date Sampled:	11/03/05				
9778 Broadmoore Drive	Transite Div. 2	Date Received: 11/04/05					
G., D., CA 04522	Client Contact: Sher Guha	Date Extracted: 11/04/05					
San Ramon, CA 94523	Client P.O.:	Date Analyzed:	11/04/05-1	1/07/05			
	Inorganic Anions by IC*						
Extraction method: E300.1	Analytical methods: E300.1		Work Or	der: 0511091			
		0.16-4-	DE	9/ 55			

extraction method: E300.			nytical methods: E500.1			1401. 05 1107
Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511091-001C	W-3	w	3.7	51	1	94
						1
						-
						-
						<del> </del>
						+
						-
						-
				1		

Reporting Limit for DF =1;	W	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.





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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8021B/	8015Cm E	Extraction: SW5030B			Batc	hID: 18900		Spiked San	nple ID: 051	1093-001A
Analyte	Sample	Spiked	MS	MS MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
7 <b></b>	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
МТВЕ	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001A	1/03/05 10:30 AM	11/06/05	11/06/05 4:36 AM	0511091-002A	l 1/03/05	11/05/05	11/05/05 6:48 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8015C	E	xtraction	SW3510	С	Batcl	hID: 18894		Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Allalyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18894 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed

0511091-001a 1/03/05 10:30 AM 11/04/05 11/05/05 4:43 AM

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644



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### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: SW8260B	E	xtraction	SW5030	В	Batc	hID: 18898	3	Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	MS % Rec.	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Acceptance Criteria (%)	
Allalyte	µg/L	μg/L		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD	
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130	
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130	
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130	
%\$\$2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130	
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled Date Extracted Date Analyz		Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001B	1/03/05 10:30 AM	11/04/05	1/04/05 11:28 PM	```			

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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## QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511091

EPA Method: E300.1	E	xtraction	E300.1		BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511091-001c	1/03/05 10:30 AM	11/04/05	1/04/05 10:37 PM	0511091-001C	1/03/05 10:30 AM	11/04/05	11/07/05 9:40 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 Website: www.mccampbell.com Email: main@mccampbell.com RUSH 24 HR 48 HR 72 HR - 5 D Telephone: (877) 798-1620 GeoTracker EDF PDF Excel Write On (DW) Fax: (925) 798-1622 Report To: SHER GUILA. Bill To: ESSELTER Analysis Request Other Comn Company: Test to TENDERCY SERVICES INC 9778 BRIND MOORE DR. SAN RAMON. G. 94583 Grease (1664 / 5520 E/B&F) Filter BIEX+4128 E-Mail: Esset Ed Eturelas, la Sampl Tele: (4/5) 794- 1960 for M. LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Fax: (925 ) 233 2997 Project #: 0569/2 analys Total Petroleum Hydrocarbons (418.1) Project Name: AcTemsir Div. 2 Yes / I Project Location: EMERIVINE. Lead (200,7 / 200,8 / 6010 / 6020) EPA 525.2 / 625 / 8270 (SVOCs) Sampler Signature: \ ... METHOD SAMPLING Type Containers MATRIX PRESERVED Containers LOCATION/ SAMPLE ID TPH as Diesel/ Field Point Name Date Time Other HNO. Other MEBET HCL ICE Evyrul 314 10-30 VOA X. ĸ × 2kmi N X . ثار: AT V K K X Relinquished By: Date: Time: Received By Sher Cource ICE/tº COMMENTS: 11/4-11-15 GOOD CONDITION Relinquished By: HEAD SPACE ABSENT Dates Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS Relinquished By: PRESERVED IN LAB Date: Time: Received By: VOAS O&G METALS OTHER



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MIC	Campbell An	iaiytic	:ai, inc.	Website: www.mcc	ampbell.com E-mail: main	@тесат	pbell.com	
Essel Technolo	gy Service		Client Project ID:	#056912; AC	Date Sampled:	11/03/	05	
9778 Broadmo	ore Drive		Transit Div. 2	Date Received:	11/04/	05		
	•		Client Contact: Sh	Date Extracted:	11/05/	05-11/0	07/05	
San Ramon, Ca	A 94525		Client P.O.:		Date Analyzed:	11/05/	/05-11/(	07/05
		oline Ra		tile Hydrocarbons as	Gasoline*	Wo	rk Order:	0511095
Extraction method: S1	W5030B Client ID	Matri		ethods: SW8015Cm TPH(g)		110	DF	% SS
001A	W-4	W	^	ND			1	100
002A	Trip Blank	w		ND			l	101
		1						
	/***							
	· ———							

ł	Reporting Limit for DF =1;	W.	30	μg/L
1	ND means not detected at or above the reporting limit	S	NA	NA
Į				.7

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

Angela Rydelius, Lab Manager



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Micca	ımpuen Anaıy	riicai, ilic.	Website: www.mccampbell.com E-mail: main@mccampbell.com						
Essel Technology	Service		e: #056912; AC	Date Sampled: 11/0	3/05				
9778 Broadmoore	Drive	Transit Div. 2		Date Received: 11/0	4/05				
0 D CA 0	4500	Client Contact:	Sher Guha	Date Extracted: 11/0	4/05				
San Ramon, CA 9	4323	Client P.O.:		Date Analyzed: 11/0	4/05				
			actable Hydrocarboi	ns as Diesel*	Vork Order:	0511005			
Extraction method: SW35			methods: SW8015C		DF	% SS			
Lab ID	b ID Client ID Matrix TPH(d)					% 33			
0511095-001A	W-4	w	66	ó,b	1	101			
					<u> </u>				
					-				
				·					
					-				
					_				
			· ·						
	g Limit for DF =1;	w		50		ιg/L			
ND means not detected at or above the reporting limit		S	]	NA		NA			

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than -1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

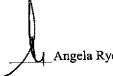
DHS Certification No. 1644

Angela Rydelius, Lab Manager



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Essel Technology Service		oject ID: #056912; AC	Date Sampled:	11/03/05			
9778 Broadmoore Drive	Transit E	Div. 2	Date Received: 11/04/05				
	Client Co	ontact: Sher Guha	Date Extracted:	Date Extracted: 11/05/05			
San Ramon, CA 94523	Client P.	O.:	Date Analyzed:	11/05/05			
Eutration Method, CW5020B		E and BTEX by GC/MS* alytical Method: SW8260B		Work Ord	er: 0511095		
Extraction Method: SW5030B  Lab ID	0511095-001B	aryanda Artinda. Diri da 900			<u></u>		
Client ID	W-4	:		Reporting	Limit for		
Matrix	W		   	DF	=1		
DF	1		<del>-</del>	S	W		
Compound		Concentration		ug/kg	μg/L		
Benzene	ND			NA	0.5		
Ethylbenzene	ND			NA	0.5		
Methyl-t-butyl ether (MTBE)	2.0			NA	0.5		
Toluene	ND			NA	0.5		
Xylenes	ND			NA	0.5		
	Surr	ogate Recoveries (%)					
%SS1:	102						
%SS2:	101						
%SS3:	102						
Comments							
* water and vapor samples are reported in µ extracts are reported in mg/L, wipe samples	g/L, soil/sludge/solic in ug/wipe.	d samples in mg/kg, product/oil/non-aque	ous liquid samples and	d all TCLP & :	SPLP		



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



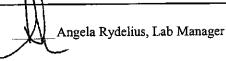
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Website: www.mccampbell.com E-mail: main@mccampbell.com

Ly C			11 0001101					
Essel Technolo	gy Service	Client Pro	oject ID: #056912; AC	Date Sampled:	11/03/05			
9778 Broadmoo	ore Drive	Transit D	iv. 2	Date Received: 11/04/05				
		Client Co	ntact: Sher Guha	Date Extracted:	11/04/05			
San Ramon, CA 94523		Client P.0	D.:	Date Analyzed:	11/05/05-1	1/07/05		
			organic Anions by IC*		West O	der: 0511095		
Extraction method: E3	00.1	Ana	alytical methods: E300.1		WORK	de1. 0311095		
Cli de l	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS		

Lab ID	Client ID	Matrix	Nitrate as N	Sulfate	DF	% SS
0511095-001C	W-4	w	ND	32	1	93
						ļ
					İ	
				1.300		
1					-	ł

Reporting Limit for DF =1;	w	0.1	0.1	mg/L
ND means not detected at or above the reporting limit	S	NA	NA	mg/Kg

<sup>\*</sup> water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.



<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8021B/	/8015Cm E	Extraction: SW5030B			BatchID: 18900			Spiked Sample ID: 0511093-001A		
Analyte	Sample	Spiked	MS % Rec.	MSD MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	µg/L	μg/L		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	113	110	2.60	110	109	0.908	70 - 130	70 - 130
мтве	ND	10	108	106	1.53	101	99.7	1.09	70 - 130	70 - 130
Benzene	ND	10	102	105	2.49	103	102	1.28	70 - 130	70 - 130
Toluene	ND	10	99.5	102	2.30	104	98.7	4.80	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	2.25	108	105	2.94	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	100	96	4.08	70 - 130	70 - 130
%SS:	109	10	102	103	0.772	104	101	2.52	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

### BATCH 18900 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001A	11/03/05 1:25 PM	11/07/05	1/07/05 11:54 PM	0511095-002A	11/03/05	11/05/05	1/05/05 10:07 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8015C	E	Extraction: SW3510C			BatchiD: 18894			Spiked Sample ID: N/A		
A 1. 4 -	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	µg/L	μg/L μg/L % Rec.		% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	96.7	2.85	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	103	100	2.75	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18894 SUMMARY

Sample ID Date Sampled Date Extracted Date Analyzed Sample ID Date Sampled Date Extracted Date Analyzed 0511095-001a 11/03/05 1:25 PM 11/04/05 9:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: SW8260B	E	Extraction: SW5030B				BatchID: 18898			Spiked Sample ID: 0511082-002A			
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
	μg/L	μg/L μg/L		% Rec. % Rec.		% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Benzene	ND	10	102	105	2.89	104	101	2.03	70 - 130	70 - 130		
Methyl-t-butyl ether (MTBE)	ND	10	101	106	5.63	95	95.2	0.235	70 - 130	70 - 130		
Toluene	ND	10	112	116	3.29	111	111	0	70 - 130	70 - 130		
%SS1:	102	10	101	100	1.57	96	98	1.63	70 - 130	70 - 130		
%SS2:	104	10	100	101	0.484	102	103	1.05	70 - 130	70 - 130		
%SS3:	102	10	105	102	3.19	108	110	2.28	70 - 130	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18898 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001B	11/03/05 1:25 PM	11/05/05	11/05/05 2:17 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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## QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0511095

EPA Method: E300.1	E	Extraction: E300.1				BatchID: 18820			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Analyte	mg/L	mg/L mg/L % Rec. % Rec.		% RPD	% Rec.	% Rec. % Rec.		MS/MSD LCS/LCS			
Nitrate as N	N/A	1	N/A	N/A	N/A	103	97.4	5.57	N/A	85 - 115	
Sulfate	N/A	1	N/A	N/A	N/A	104	99.5	4.69	N/A	85 - 115	
%SS:	N/A	0.10	N/A	N/A	N/A	91	91	0	N/A	90 - 115	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 18820 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0511095-001c	11/03/05 1:25 PM	11/04/05	1/05/05 12:40 AM	0511095-001C	11/03/05 1:25 PM	11/04/05	11/07/05 6:05 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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