

LETTER OF TRANSMITTAL

October 13, 2003

TO: Eva Chu

City of San Leandro

Environmental Services Division

Civic Center

835 East 14th Street

San Leandro, CA 94577

FROM: Henry Barrientos

URS Corporation

55 South Market Street, Suite 1500

San Jose, CA 95113

SUBJECT: Final Soil Sampling report for Arco Station 0601

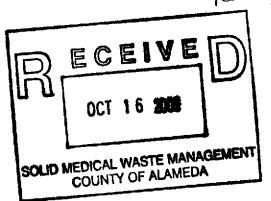
Enclosed you will find one copy of the Soil Sampling Report for the line/dispenser upgrade work performed at Arco Station 0601 San Leandro, CA. Should you have any questions regarding this report please call me at 408-297-9585.

Regards,

Cc: Mr. Paul Supple, BP

Mrs. Karl Busche, ACHCSA Mr. Mike Bakaldin, SLFD Mr. Scott Robinson, URS October 9, 2003

Mr. Karl Busche City of San Leandro Environmental Services Division Civic Center 835 East 14th Street San Leandro, CA 94577



Re: Dispenser and Product Line Removal and Upgrade Soil Sampling Report ARCO Service Station No. 0601
712 Lewelling Boulevard
San Leandro, California
URS Project No. 38486284

Dear Mr. Busche:

URS Corporation (URS) has prepared this report on behalf BP West Coast Products, LLC to document the soil sampling conducted during the removal and replacement of the product line piping and dispensers at the above referenced site.

Site Background

The site is located at 712 Leweling Boulevard San Leandro, California (Figures 1 and 2). Currently, the Site is operated as an ARCO gasoline service station. The Site is bound by Lewelling Boulevard to the northwest, Washington Avenue to the northeast, residential units to the southeast, and a commercial parking lot to the southwest. The majority of the site is concrete and asphalt paved.

Current site structures include four 10,000 gallon-gasoline underground storage tanks (UST's), two pump islands with eight dispensers, and a convenience store building with two unused automobile service bays. Currently, groundwater monitoring at this site is conducted on a quarterly basis.

Fuel Dispenser and Product Line Soil Sampling

All dispensers and associated double walled product line piping were excavated, removed, and disposed of by the contractor, Wilcon Builders Inc., on June 18, 2003. Prior to collecting soil samples, select sampling locations were reviewed, marked in the field and approved by Mr. Karl Busche of the City of San Leandro Environmental Services Department. In addition, URS personnel collected additional soil samples at other select locations. Soil samples were collected in the native soil beneath each dispenser and along the fuel piping trenches. Prior to sampling, URS personnel inspected the fuel piping trenches for any observable soil staining or hydrocarbon odor.

URS Corporation 55 South Market Street, Suite 1500 San Jose, CA 95113 Tel: 408.297.9585

Fax: 408.297.6962

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URS

Sampling locations were also field screened for volatile organic compounds using a Photo Ionization Detector (PID).

No obvious soil staining was reported at any of the soil sampling locations. Slight hydrocarbon odors were reported at three sampling locations (PL-2, PL-7 and PL-13), with a strong hydrocarbon odor reported at sample location D-6. Measurable PID readings were detected at seven soil sampling locations ranging between 1.0 ppm (parts per million)(at sample D-3), and 685 ppm (at sample location D-6).

Under URS direction, Wilcon Builders Inc. operated a backhoe bucket to excavate to the specified sampling depth at each soil sampling location. URS personnel collected soil samples by pushing 4-inch long by 2-inch diameter brass tubes into the native soil collected by the contractor operated backhoe bucket. Samples were collected at the following depths and locations:

- Eight soil samples (designated D-1 through D-8) were collected from depths ranging between 4 feet and 5 feet below ground surface (bgs) at the former fuel dispenser locations (Figure 2);
- Twelve soil samples (designated PL-1 through PL-4, and PL-7 through PL-14) were collected at depths ranging between 4 feet and 6 feet bgs from beneath the former product piping locations near the dispensers and towards the USTs (Figure 2).

Two soil sampling locations designated as PL-5 and PL-6 were not collected since they were excavated in the area where the former UST's where located and no cohesive soils were encountered. The soil samples collected were submitted to a California State Certified laboratory, Sequoia Analytical Laboratory (Lab) in Morgan Hill, California for analysis. The samples were analyzed by EPA Method 8260B for: benzene, toluene, ethylbenzene, total xylenes (BTEX); the fuel oxygenates Methyl-tert-Butyl Ether (MTBE), ethanol, tert-Butyl Alcohol (TBA), Di-Isopropyl Ether (DIPE), Ethyl-tert-Butyl Ether (ETBE); tert-Amyl Methyl Ether (TAME), Ethylene dibromide (EDB), and Ethylene dichloride (EDC). Due to a Lab oversight, no samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g). However, the site is actively monitored for TPH-g on a quarterly basis, and TPH-g historically has not been detected in groundwater at the site.

Seven of the soil samples collected were reported by the Lab to contain various BTEX concentrations, the highest of which were detected at sampling locations D-6, PL-2 and PL-13. Soil sample D-6 reported toluene concentrations at 230 ppm, and xylenes at 350 ppm. Soil sample PL-2 reported toluene concentrations at 14 ppm, while PL-13 reported xylene concentrations at 30 ppm. Additionally, seven soil samples were reported with low concentrations of various other chemical constituents such as buthlybenzene, naphthalene, n-propylbenzene, p-isopropylene, and trimethylbenzene. A full list of these are included in Attachment B. No MTBE or other fuel oxygenate concentrations were detected in any of the twenty soil samples submitted to the Lab (Table 1).

Groundwater Sampling and Disposal

As part of the line/dispenser upgrades, the concrete pad covering the existing USTs was removed and new plumbing and sumps were installed. During these activities groundwater was encountered. The groundwater was extracted from the tank pit area in order to not compromise the integrity of the USTs. The extracted groundwater was stored in a 21,000-gallon tank on-site (Baker tank), until it could be sampled and analyzed.

A water sample was collected from the Baker tank and labeled "TW-1" on June 17, 2003. At the request of the Oro Loma Sanitary District (OLSD), the water sample was submitted to the Lab, and analyzed for the same chemicals listed above, in addition to total metals, phenols, cyanide and pH (analytical methods are listed in Attachment A). The Lab reported non-detect concentrations for all chemicals of concern, except for MTBE at 290 ppb (ug/l). The pH analysis resulted in a value of 6.96 pH units (Table 3).

During the approximate month of intermittent groundwater extraction from the UST pit, approximately 21,000 gallons of groundwater was collected. Once analyzed and approved for disposal by the OLSD, the groundwater was discharged to the sanitary sewer, per an OLSD discharge permit.

Stockpile Soil Sampling and Disposal

The soil excavated during the removal and replacement of the product lines and dispensers was stockpiled separately from visually clean native soil designated as backfill. On June 24, 2003, URS personnel collected soil samples from the stockpiled soil on-site and submitted them to the Lab, where they were combined into a single sample (Sample ID "601"). The composite sample was analyzed for the same constituents of concern and analytical methods as for the product line and dispenser soil samples listed above, as well as total lead for disposal purposes.

The Lab reported various BTEX concentrations, with non-detect concentrations reported for toluene and MTBE. As in the dispenser and product line samples, the Lab also reported low concentrations of various other chemical constituents such as buthlybenzene, naphthalene, n-propylbenzene, and trimethylbenzene. Total lead was reported at a concentration of 17 ppm (Table 2).

The analytical results from these samples were used to profile and dispose of these soils. Between July 3 and 9, 2003, Dillard Environmental Services removed approximately 100 tons of non-hazardous soil from the site and transported it to Republic Services Vasco Road Landfill a Class II landfill located in Livermore, California.

Field and laboratory procedures for all samples collected are presented in Attachment A. Laboratory analytical reports and chain-of-custody documentation are presented in Attachment B. Field Sampling Data Sheets are presented in Attachment C. Copies of the waste manifests are presented in Attachment D.

Conclusions

Based on the analytical data collected and field observations made during the product line and dispenser island upgrades URS concludes the following:

- Soil sample analytical results indicate that minimal concentrations of BTEX
 constituents and no MTBE or ethanol concentrations were found in the vadose zone.
- Groundwater concentrations for MTBE appear elevated and should continue to be monitored on a quarterly basis.
- All pre-existing product lines and fuel dispensers were removed and replaced in approximately the same locations, backfilled with pea gravel, and paved with concrete.

This report was prepared and is based on data, site conditions, and other information that are generally applicable as of the date of the report. The conclusions and recommendations herein are therefore applicable only to that time frame.

Background information, including but not limited to previous field measurements, site plans, and other data, has been furnished to URS by BP, its previous consultants, and/or third parties that URS has used in preparing this report. URS has relied on this information as furnished. URS is not responsible for nor has it confirmed the accuracy of this information.

If you have any questions or comments regarding this report, please contact Scott Robinson with URS at (510) 874-3280.

Sincerely,

URS CORPORATION

Henry Barrientos Project Engineer Scott Robinson Project Manager

Attachments:

Table 1 Line/Dispenser Soil Sample Results
Table 2 Stockpile Soil Sample Results
Table 3 Groundwater Sample Results

Figure 1 Site Vicinity Map

Figure 2 Soil Sample Location Map

URS

Mr. Karl Busche October 9, 2003 Page 5

Attachment A Field and Laboratory Procedures

Attachment B Laboratory Analytical Reports and Chain-of-Custody Documentation

Attachment C Field Sampling Data Sheets

Attachment D Waste Manifests

cc: Mr. Paul Supple, Atlantic Richfield Company, P.O. Box 6549, Moraga, CA 94549

Mrs. Eva Chu, Alameda County Health Care Services Agency, 1131 Harbor Bay Pkwy,

2nd Floor, Alameda, CA 94502

Mr. Mike Bakaldin, San Leandro Fire Department, Hazardous Materials Program, 835

East 14th Street, San Leandro, CA 94577.

Table 1
LINE/DISPENSER SOIL SAMPLE RESULTS

Soil Sample ID	Sample Depth (feet) *	Date Sampled	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MTBE (ppm)
D-1	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-2	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-3	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-4 *	4.0	06/18/03	ND<0.0016	0.0091	ND<0.0016	0.0088	ND<0.0016
D-5 "	4.0	06/18/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
D-6 a	4.0	06/18/03	7	230	55	350	ND <2.5
D-7	5.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
D-8	4.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016_	ND <0.0016
PL-1	4.0	06/18/03	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014
PL-2°	4.0	06/18/03	1.2	14	1.5	9.7	ND <0.25
PL-3	4.0	06/18/03	ND <0.0017	0.0026	ND <0.0017	0.0036	ND <0.0017
PL-4	4,0	06/18/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
PL-7°	5.0	06/18/03	ND <0.05	ND <0.05	ND <0.05	0.14	ND <0.025
PL-8 a	6.0	06/19/03	ND <0.05	ND <0.05	0.27	0.11	ND <0.025
PL-9	4.0	06/18/03	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017
PL-10	5.0	06/19/03	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019
PL-11	4.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-12	5.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-13 °	4.0	06/19/03	ND <0.5	ND <0.5	5.6	30	ND <0.25
PL-14	6.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
Over Excavation	Sample.						r
OE PL-2 a	8.0	06/19/03	0.1500	0.1800	0.0063	0.6400	0.0045

Notes:

a. The Lab analytical results also reported other chemical constituents in small quantities such as 1,2,3-Trimethylbenzene, n-Butylbenzene, Naphthalene, n-Propylbenzene, and p-Isopropyltoluene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

Table 2
STOCKPILE SOIL SAMPLE RESULTS

Soil Sample ID	Date Sampled	Benzene (ppm)	Toluëne (ppm)	Ethyl benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)
601 b	06/24/03	0.0026	ND <0.002	0.007	0.026	ND <0.002	17

Notes:

b. The Lab analytical results also reported other chemical constituents in small quantities such as Trimethylbenzene, Butylbenzene, Naphthalene, and n-Propylbenzene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

BTEX	= Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.
MTBE	= Methyl tert-Butyl Ether by EPA Method 8260B.
Lead	= Total lead by EPA Method 6010B.
ppm	= Parts per million.
ND <	= Less than stated laboratory detection limit.

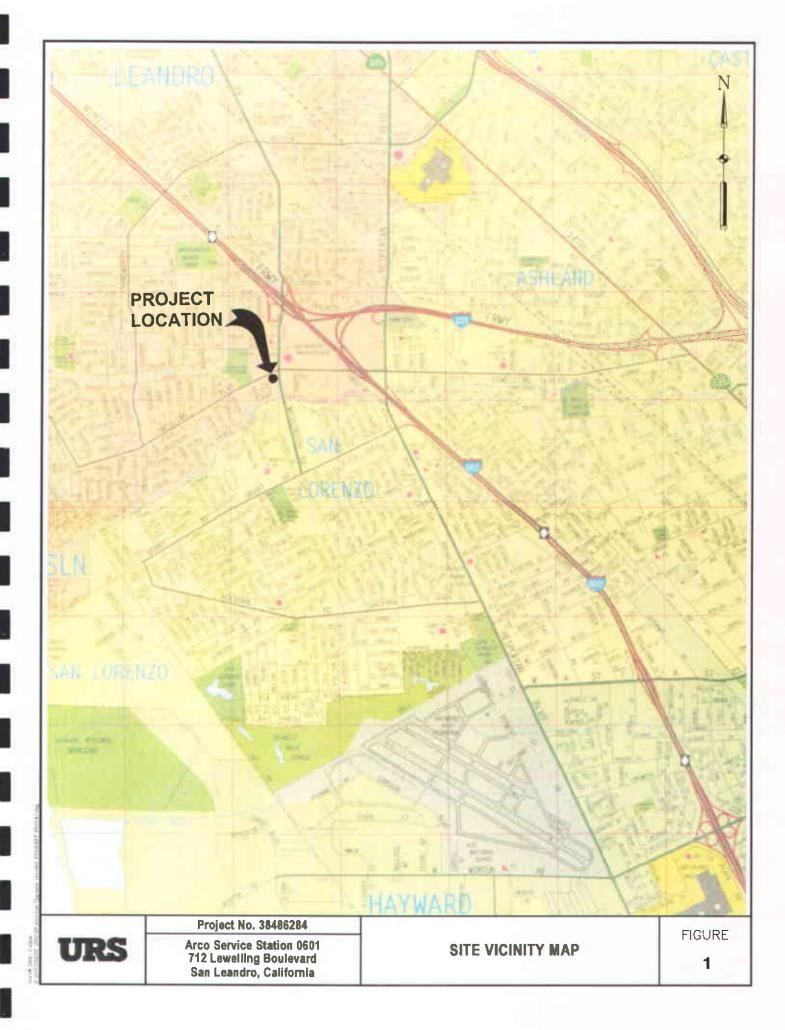
ARCO Service Station 601

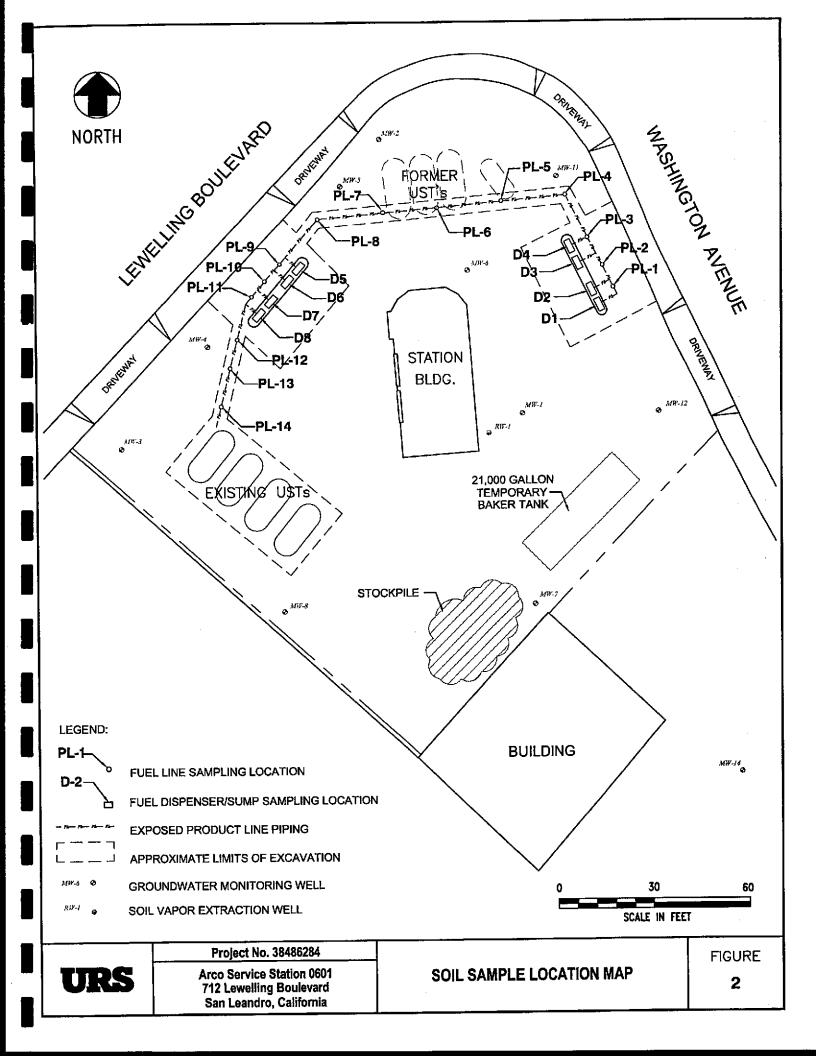
712 Lewelling Boulevard San Leandro, California

Table 3 GROUNDWATER SAMPLE RESULTS

Sample ID	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	рĦ
TW-1	06/17/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	290	6.96

BTEX	= Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.	
MTBE	= Methyl tert-Butyl Ether by EPA Method 8260B.	
рН	= pH by EPA Method 150.1	
ppm	= Parts per million.	
ND <	= Less than stated laboratory detection limit.	





ATTACHMENT A FIELD AND LABORATORY PROCEDURES

ATTACHMENT A FIELD AND LABORATORY PROCEDURES

Soil Sampling

Soil samples were collected by advancing 4-inch long by 2-inch diameter brass sample liners into the (minimally) undisturbed soil contained in the contractor operated backhoe bucket. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Soil Sampling from Stockpiled Soil

Soil samples were collected by advancing 4-inch long by 2-inch diameter brass sample liners into the soil stockpile, after removing approximately 6 inches to 1 foot of surface material in the sample location. One composite sample (four sleeves to 1 sample) was collected per approximately 500 cubic yards of soil. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Groundwater Sampling

Groundwater samples were collected by dropping a plastic bailer into the temporary storage tank (Baker tank), and pouring the extracted groundwater into a series of VOAS and 1 litre bottles. The samples were then placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

Laboratory Analysis of Soil Samples

All samples were analyzed for TPH-g, benzene, toluene, ethylbenzene, xylenes (BTEX compounds), MTBE by EPA Method 8260B, and total lead by EPA Method 6010B. Soil samples were also analyzed for fuel oxygenates, ethanol, TBA, DIPE, ETBE, TAME, EDB, and EDC by EPA Method 8260B. Groundwater samples were analyzed for fuel oxygenates as listed above by EPA Method 8260B, total metals by EPA Method 200.7, mercury by EPA Method 7470A, phenols by EPA Method 420.1, pH units by EPA Method 150.1, and cyanide by EPA Method 335.2.

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION



9 July, 2003

Scott Robinson URS Corporation [Arco] 500 12th Street, Suite 100 Oakland, CA 94607

RE: ARCO #601, San Leandro, CA Sequoia Work Order: MMF0628

Enclosed are the results of analyses for samples received by the laboratory on 06/19/03 18:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Juliera allen
Project Manager

CA ELAP Certificate #1210



885 Jarvis Dr Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

ANALYTICAL REPORT FOR SAMPLES

				D. 4. D
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D-2	MMF0628-01	Soil	06/18/03 16:31	06/19/03 18:45
D-1	MMF0628-02	Soil	06/18/03 16:52	06/19/03 18:45
PL-1	MMF0628-03	Soil	06/18/03 17:05	06/19/03 18:45
PL-2	MMF0628-04	Soil	06/18/03 17:20	06/19/03 18:45
D-3	MMF0628-05	Soil	06/18/03 17:25	06/19/03 18:45
D-4	MMF0628-06	Soil	06/18/03 17:28	06/19/03 18:45
PL-3	MMF0628-07	Soil	06/18/03 17:34	06/19/03 18:45
PL-4	ммғ0628-08	Soil	06/18/03 17:40	06/19/03 18:45
гь -ч РL-7	MMF0628-09	Soil	06/18/03 18:26	06/19/03 18:45
PL-7 D-5	MMF0628-10	Soil	06/18/03 18:30	06/19/03 18:45
	MMF0628-11	Soil	06/18/03 18:42	06/19/03 18:45
D-6	MMF0628-12	Soil	06/18/03 18:47	06/19/03 18:45
PL-9	MMF0628-13	Soil	06/19/03 08:25	06/19/03 18:45
PL-10	ммг0628-14	Soil	06/19/03 08:45	06/19/03 18:45
D-8	MMF0628-15	Soil	06/19/03 08:53	06/19/03 18:45
PL-11	MMF0628-16	Soil	06/19/03 09:10	06/19/03 18:45
PL-13	MMF0628-17	Soil	06/19/03 09:15	06/19/03 18:45
PL-14		Soil	06/19/03 09:30	06/19/03 18:45
PL-12	MMF0628-18		06/19/03 09:45	06/19/03 18:45
PL-8	MMF0628-19	Soil	06/19/03 09:45	06/19/03 18:45
D-7	MMF0628-20	Soil	19:43 CD/KI 10D	CF.01 CON1100

There were no custody seals that were received with this project.





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/18/03 16:31	Received: 06/1	9/03 18:4	5					
	ND	1.7	ug/kg	3.42	3F30001	06/30/03	06/30/03	EPA 8260B	
Benzene Bromobenzene	ND ND	1.7	II II	**	II		u	10	
Bromochloromethane	ND	1.7		**	н	Ð	41	10	
Bromodichloromethane	ND	1.7	ц		w	**	11	"	•
Bromodicnioromethane	ND ND	1.7		**	"	**	п	•	
Bromotorm Bromomethane	ND ND	6.8	,,	н	17	μ	U	**	
n-Butylbenzene	ND	1.7	14	II	**	II.	н	11	
n-Butylbenzene sec-Butylbenzene	ND	1.7	**	н	•	ш	**	п	
tert-Butylbenzene	ND		**	н	**	lt.	11	п	
Carbon tetrachloride	ND ND	1.7	**	,,	n	W	n	н	
Chlorobenzene	ND	1.7	11	**	п		11	n	
Chloroethane	ND	6.8		**	п	и	**	"	
Chloroform	ND ND	•	u	re	**	H	"	**	
Chloromethane	ND		U	**	n	н	11	n	
2-Chlorotoluene	ND			. 11	**	••	п	n	
4-Chlorotoluene	ND	=		n	D	H	H	u	
Dibromochloromethane	ND		H	n	U	п	tt		
1,2-Dibromoethane (EDB)	ND		"	**	"		**	41	
Dibromomethane	ND			**	19	10	**	11	
1,2-Dibromo-3-chloropropa	i i		11	11	11	"	**	ш	
1,2-Dichlorobenzene	ND		п	**	п	n	Ħ	ii	
1,3-Dichlorobenzene	ND	1.7	II .	*	n	п	11	H	
1,4-Dichlorobenzene	ND		II	•	rt	n	41	Ħ	
Dichlorodifluoromethane	ND		11	**		n	11	•	
1,1-Dichloroethane	ND	1.7	*	11	••	11	п	**	
1,2-Dichloroethane	ND	1.7	#1	н	*	n	п	**	
1,1-Dichloroethene	ND	1.7	**	II.	"	н	"	*	
cis-1,2-Dichloroethene	ND		11	n	**	11	**	**	
trans-1,2-Dichloroethene	ทบ	1.7	**	H	н	H			
1,2-Dichloropropane	ND	1.7	11	**	п	H	**	"	
1,3-Dichloropropane	ND	1.7	11	**	IF	11	*	11	
2,2-Dichloropropane	ND	1.7	п	H	Ħ	u	7)	11	
1,1-Dichloropropene	ND	1.7	"	••	"	14	11	11	
Ethylbenzene	ND	1.7	**	**		*		п	•
Hexachlorobutadiene	ND	1.7	**	11			11	н	
Isopropylbenzene	ND	1.7		n	n	11	11	**	
p-Isopropyltoluene	NE	1.7	"	н	"	H	н	"	
Methylene chloride	NE	6.8	77	H	11	II	1f	11	
Naphthalene	ND	1.7	11	n	11	11	H	if .	
-	NE	1.7	11		11	Ħ	11	n	
n-Propylbenzene	NE	1.7	11	-					

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-2 (MMF0628-01) Soil Sa	mpled: 06/18/03 16:31	Received: 06/1	9/03 18:	45				<u></u>	
Styrene	ND	1.7	ug/kg	3.42	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	11	"	H)+	11	11	
1,1,2,2-Tetrachloroethane	ND	1.7	**		**	II	н		
Tetrachloroethene	ND	1.7	**	30	И	n	II	••	
Toluene	ND	1.7	**	"	11	1J	"	n	
1,2,3-Trichlorobenzene	ND	1.7	11	н	n	17	14	"	
1,2,4-Trichlorobenzene	ND	1.7		II	0		"	a	
1,1,1-Trichloroethane	ND	1.7		**	u	11	"	II .	
1,1,2-Trichloroethane	ND	1.7	n	**	*	н	II .	н	
Trichloroethene	ND	1.7	**	**	**	u	Ħ	"	
Trichlorofluoromethane	ND	1.7		"	"	11	н	**	
1,2,3-Trichloropropane	ND	1.7	41	11	II .	H	"	H	
1,2,4-Trimethylbenzene	ND		11	11	**	"	*	11	
1,3,5-Trimethylbenzene	ND		U	II	4	**	•	11	
Vinyl chloride	ND		n		••	n	11	II	
	ND		+1	н	н	16	ıl	n	
Xylenes (total)		106 %		0-140	,,	ıı	11	n	
Surrogate: Dibromofluorome	thane	113 %		0-140 0-140	,,	rr .	rr .	, п	
Surrogate: 1,2-Dichloroethan	ie-d4		-	0-140 0-140	,,	"	п	#	
Surrogate: Toluene-d8		105 %		0-140 0-140	"	"	•	"	
Surrogate: 4-Bromofluorober	ızene	104 %	. 0	0-140 3.42	n	11	11	11	
Ethanol	ND			3.42	11	#	н	н	
tert-Butyl alcohol	ND				,,	,,	H	н	
Methyl tert-butyl ether	ND				11	**	"	"	
Di-isopropyl ether	ND		"	"	 11	77	19		
Ethyl tert-butyl ether	ND					,,	77	11	
tert-Amyl methyl ether	ND			"	"	11		u	
1,2-Dichloroethane	ND			"	**	 D		11	
1,2-Dibromoethane (EDB)	ND	1.7	***						
Surrogate: 1,2-Dichloroethan	ne-d4	113 %	6	0-140	"	,,	н	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-1 (MMF0628-02) Soil	Sampled: 06/18/03 16:52	Received: 06/1	9/03 18:4	5					
Benzene	ND		ug/kg	3.33	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND		ıı .	н	+1	il	"	rr	
Bromochloromethane	ND	1.7		"	11	W	**	н	
Bromodichloromethane	ND	1.7	10	н	H	,,	**	.,	
Bromoform	ND	1.7	**	II	Ħ	**	t)	**	
Bromomethane	ND	6.7	U	ft.	**	11	"	11	
n-Butylbenzene	ND	1.7	**	11	H	**	11	44	
sec-Butylbenzene	ND	1.7	11		*	**	"	"	
tert-Butylbenzene	ND	1.7	ц	17	"	п	H	11	
Carbon tetrachloride	ND	1.7	If		11	п	**	II.	
Chlorobenzene	ND	1.7	"	•	II .	H		U	
Chloroethane	ND	6.7		. "	"	**	*	**	
Chloroform	ND	1.7	н		**	**		**	
Chloromethane	ND	17	•	н	**	77	"	**	
2-Chlorotoluene	ND	1.7	"	"	10	"	11	"	
4-Chlorotoluene	ND	1.7	п	11	"	11	11	**	
Dibromochloromethane	ND	1.7	п	सं	31	11	н	11	
1,2-Dibromoethane (EDB)) ND	1.7	*	•	II	П	n	11	
Dibromomethane	ND	1.7	"	н	11	ır	11	u	
1,2-Dibromo-3-chloroprop	pane ND	6.7	v	п	n		**	*	
1.2-Dichlorobenzene	ND	1.7	*	H	н	**	Ħ	"	
1,3-Dichlorobenzene	ND	1.7		Ħ	n	**	H	11	
1,4-Dichlorobenzene	ND	1.7	u	**	"	ti	11	11	
Dichlorodifluoromethane	ND	1.7	п	**	**	"	11	**	
1,1-Dichloroethane	ND	1.7	IF	H	11	И	п		
1,2-Dichloroethane	ND	1.7	"	11	11	11	H	11	
1,1-Dichloroethene	ND	1.7	**	11	10	**	*	11	
cis-1,2-Dichloroethene	ND	1.7	н	IF	**	**	19	11	
trans-1,2-Dichloroethene	ND	1.7	11		19	*	n	"	
1,2-Dichloropropane	NE	1.7	11	10		W	11		
1,3-Dichloropropane	NE	1.7	п	**	"		11		
2,2-Dichloropropane	NE	1.7	н	H	п	н	1(**	
1,1-Dichloropropene	NE	1.7	"	**	19	n	H	**	
Ethylbenzene	NE			11	**	"	"	**	
Hexachlorobutadiene	NE	1.7	**	U	H	u	**	11	
Isopropylbenzene	NI	1.7	н	н	**	π	17	п	
p-Isopropyltoluene	NI	1.7	"	••	"	**		Ð	
Methylene chloride	NI	6.7	11	Ħ	и	**	**	n	
Naphthalene	NE	1.7	И	n		Н	10	98	
п-Propylbenzene	NI	1.7	10	•	н	П	11	"	•





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/18/03 16:52	Received: 06/1	9/03 18:	45					
Styrene	ND	1.7	ug/kg	3.33	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7		II	ц	19	17	77	
1,1,2,2-Tetrachloroethane	ND	1.7	H	**	•	**	19	34	
Tetrachloroethene	ND	1.7			**	11	ų.	II	
Toluene	ND	1.7		*		II.	11	II	
1,2,3-Trichlorobenzene	ND	1.7	41	a	n	H	ц	*	
1,2,4-Trichlorobenzene	ND	1.7	17	п	н	**	n	44	
1,1,1-Trichloroethane	ND	1.7	"	n	**	D	. **	n	
	ND	1.7	н			11	11	W	
1,1,2-Trichloroethane	ND		п	н	19		n	11	
Trichloroethene	ND		н	н	11	н	11	II.	
Trichlorofluoromethane	ND ND		11	11	11	rr	п	tr	
1,2,3-Trichloropropane	ND		**	п		. ••	**	"	
1,2,4-Trimethylbenzene	ND		**	ıt	11	17	н	11	
1,3,5-Trimethylbenzene	ND ND		п		и		н	n	
Vinyl chloride	ND		ш		**	н	•	11	
Xylenes (total)	···			0-140			н	"	
Surrogate: Dibromofluorom	ethane	102 %			,,	и	n	u	
Surrogate: 1,2-Dichloroethe	ane-d4	110 %		0-140	,,	"	rr	и	
Surrogate: Toluene-d8		105 %		0-140	"	•	"	"	
Surrogate: 4-Bromofluorob	enzene	106 %		0-140				to to	
Ethanol	ND		" -	3.33		19	**	**	
tert-Butyl alcohol	ND		"			н	11	11	
Methyl tert-butyl ether	ND		"	11	"		11	н	
Di-isopropyl ether	ND		11	11		#	**	**	•
Ethyl tert-butyl ether	ND					,,	n	**	
tert-Amyl methyl ether	ND		11			"		#	
1,2-Dichloroethane	NE		**		"	" "	"	**	
1,2-Dibromoethane (EDB)	NE	1.7							· · ·
Surrogate: 1,2-Dichloroeth	ane-d4	110 %	б	0-140	μ	*	#	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/18/03 17:05	Received: 06/	19/03 18:	45					
Benzene	ND	1.4	ug/kg	2.78	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.4	II	I+	*	11	11*	**	
Bromochloromethane	ND	1.4	Ħ		н	11	*	**	
Bromodichloromethane	ND	1.4	17	11	11	11	н		
Bromoform	ND	1.4	"	"	н	**	**	11	
Bromomethane	ND	5.6	34	tt	H	**	"))))	
n-Butylbenzene	ND	1.4	н	"	"	и	II		
sec-Butylbenzene	ND	1.4	0 .	**	17	II .	IP	"	
tert-Butylbenzene	ND	1.4		. "		n	"	17	
Carbon tetrachloride	ND	1.4	**	II .	H	H	11	••	
Chlorobenzene	ND	1.4	**	II	II .	*1	17	14	
Chloroethane	ND	5.6	11	*	**	н	4	11	
Chloroform	ND	1.4	п	17	"	"	H	II	
Chloromethane	ND	14	19		**	II	II		
2-Chlorotoluene	ND	1.4	"	u	и	IF	4	**	
4-Chlorotoluene	ND	1.4	D	11	11	"		10	
Dibromochloromethane	ND	1.4	**	If	II	"	H	u	
1,2-Dibromoethane (EDB)	ND	1.4	#	H	n	**	"	"	
Dibromomethane	ND	1.4	IJ		"	11	19	II	
1,2-Dibromo-3-chloropropar		5.6	*	**	**	n	п	"	
1,2-Dichlorobenzene	ND	1.4	"	"		Ħ	**	**	
1,3-Dichlorobenzene	ND	1.4	**	11	11	"	н	**	•
1,4-Dichlorobenzene	ND	1.4		H	п	17	n	"	
Dichlorodifluoromethane	ND	1.4	n	"	**	**	**	11	
1,1-Dichloroethane	ND	1.4	н	er		u	11	11	
1,2-Dichloroethane	ND	1.4			**	II	п	Ħ	
1,1-Dichloroethene	ND	1.4	**	11		"	H	H	
cis-1,2-Dichloroethene	ND	1.4	16	1f	n		,,		
trans-1,2-Dichloroethene	ND	1.4	**	tf	it	**	41	#	
	ND	1.4	11	11	"	"	n		
1,2-Dichloropropane	ND	1.4	11	17		"		11	
1,3-Dichloropropane	ND	1.4	**	77	**	11	Ħ	11	
2,2-Dichloropropane	ND	1.4	**	11		P	H	u	
1,1-Dichloropropene	ND		**	п	11	"	"	n	
Ethylbenzene	ND ND			p	н	**	**	11	
Hexachlorobutadiene	ND ND				и	"	*	**	
Isopropylbenzene	ND ND			**		ч	u	n	
p-Isopropyltoluene	ND				49	11	11	11	•
Methylene chloride	ND ND			**	**	н	11	11	
Naphthalene			**	н	**	n	It	п	
n-Propylbenzene	ND	1.4							

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-1 (MMF0628-03) Soil Sa	mpled: 06/18/03 17:05	Received: 06/	19/03 18	:45					
Styrene	ND	1.4	ug/kg	2.78	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.4		**	rı .	и		11	
1,1,2,2-Tetrachloroethane	ND	1.4	11	н	**	11	It		
Tetrachloroethene	ND	1.4	It)4	**	11*	"	**	
Toluene	ND	1.4	*	II	11	и	**	11	
1,2,3-Trichlorobenzene	ND	1.4	u	**	μ	14	11	**	
1,2,4-Trichlorobenzene	ND	1.4	.,	**	*		n	**	
1,1,1-Trichloroethane	ND	1.4	**	17		*1	"	ii.	
1,1,2-Trichloroethane	ND	1.4	II .		H	41	,,	**	
Trichloroethene	ND	1.4	H	п	u	11	"	"	
Trichlorofluoromethane	ND	1.4		п	11	**	11	**	
1,2,3-Trichloropropane	ND	1.4	11	**	"	"	"	p)	•
1,2,4-Trimethylbenzene	ND	1.4			**	**	11	11	
1,3,5-Trimethylbenzene	ND	1.4	**	**	u	**	II	11	
Vinyl chloride	ND	1.4	11	**	n	10	н	II	
Xylenes (total)	ND	1.4	H	11	w	н	11	н	· · · · · · · · · · · · · · · · · · ·
		107 %	61	-140	"	**	"	a	
Surrogate: Dibromofluorometh		110%		1-140	,,	•	•	**	
Surrogate: 1,2-Dichloroethane	?-44	102 %)-140	n	"	,,	,,	
Surrogate: Toluene-d8		102 %)-140	H	,,	n	*	
Surrogate: 4-Bromofluorobenz	zene ND	110	"	2.78	11	H	rt .	11	
Ethanol	ND	56	,,	2.70		**	**	п	
tert-Butyl alcohol	ND ND	1.4	**	n	п	11		H	
Methyl tert-butyl ether		1.4	#		н	**	11	n	
Di-isopropyl ether	ND			**	,,	и	н	*	
Ethyl tert-butyl ether	ND	1.4	11	**	11	11	**	n	
tert-Amyl methyl ether	ND	1.4	" . H		*	n	11	**	
1,2-Dichloroethane	ND	1.4		11	11	H	**	11	
1,2-Dibromoethane (EDB)	ND	1.4						**	
Surrogate: 1,2-Dichloroethan	e-d4	110 %	6	0-140	"	"	.,		





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-2 (MMF0628-04) Soil	Sampled: 06/18/03 17:20	Received: 06/	/19/03 18	:45					
Ethanol	ND	100	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	50	11	11	H	17	•	п	
Methyl tert-butyl ether	ND	0.25	*	11	v	**	19	D	
Di-isopropyl ether	ND	0.25	"	*	es es	19	ħ	U	
Ethyl tert-butyl ether	ND	0.25	11	**	н	**	n	II.	
tert-Amyl methyl ether	ND	0.25	н	и	H	11	н	11	
1,2-Dichloroethane	ND	0.25		н	11		II	**	
1,2-Dibromoethane (EDB)	ND	0.25	11		11	н	•	"	
Surrogate: 1,2-Dichloroethe		104 %	60-	-140	u	"	и	"	:
-	1.2	0.50		10	п	II:	11	**	
Benzene Bromobenzene	ND	0.50	*	11	*	n	πŧ	н	
Bromochloromethane	ND	0.50	и	ıı	11	*	**	*1	
Bromodichloromethane	ND	0.50	,,	II.	11		u	91	
Bromoform	ND	0.50	98	**	U	11	n	п	
Bromomethane	ND	2.0	n	**	**	H	n	н	
	ND	0.50	ш	#	а	H	II	п	
n-Butylbenzene	ND	0.50	п		11		II	u	
sec-Butylbenzene	ND	0.50	н	**	и	*	н	"	
tert-Butylbenzene	ND	0.50		19	n	п	**	11	
Carbon tetrachloride	ND	0.50	*1	п	n	п	**	**	
Chlorobenzene	ND ND	2.0	19	n	н	H	u	114	
Chloroethane	ND	0.50	,,	If	n	**	n	17	
Chloroform	ND	2.0		Ħ	**	**	n	77	
Chloromethane	ND	0.50	а		π	"	,,	n	
2-Chlorotoluene	ND ND	0.50		**	π	и	н	н	
4-Chlorotoluene	ND ND	0.50	11	17			н	11	
Dibromochloromethane	ND ND	0.50	**		11	**	н	11	
1,2-Dibromoethane (EDB)	ND ND	0.50	**	u	n	41	11	н	
Dibromomethane		1.0		н	н	11	H	II:	
1,2-Dibromo-3-chloropropa	ine ND	0.50	27	n	*	tt	n	H	
1,2-Dichlorobenzene	ND ND	0.50	11	н		10	**	**	
1,3-Dichlorobenzene	ND ND	0.50		•		,,	n	IF	
1,4-Dichlorobenzene	ND	0.50	11	**			"	n	
Dichlorodifluoromethane			11	11	**	11	"	**	
1,1-Dichloroethane	ND ND	0.50	н)1		n	11	91	
1,2-Dichloroethane	ND	0.50			41	**	11	+1	•
1,1-Dichloroethene	ND	0.50		11	n	"	н	**	
cis-1,2-Dichloroethene	ND	0.50		"	11	11	и	•	
trans-1,2-Dichloroethene	ND	0.50		" "		11	O.	н	
1,2-Dichloropropane	ND	0.50		"			,,	11	
1,3-Dichloropropane	ND	0.50	**	.,		**			

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-2 (MMF0628-04) Soil	Sampled: 06/18/03 17:20	Received: 06/	19/03 18	:45		·			
2,2-Dichloropropane	ND	0.50	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
1.1-Dichloropropene	ND	0.50	**	Ħ	U7	II .	11	#1	
Ethylbenzene	1.5	0.50	п	11	**	11	11	"	
Hexachlorobutadiene	ND	0.50	H	11	**	"	II	**	
Isopropylbenzene	ND	0.50	*	II .	11	++	II*	ir	
p-Isopropyltoluene	ND	0.50	**	п	II .	**		**	
Methylene chloride	ND	0.50	*	H	II.	11	**	n	
Naphthalene	ND	2.0	"	11	п	Н	10	11	
n-Propylbenzene	ND	0.50	11	n	**	II	**	11	
Styrene	ND	0.50	п		77	10	14	II .	
1,1,1,2-Tetrachloroethane	ND	0.50	n	**	*	"	n	**	
1,1,2,2-Tetrachloroethane	ND	0.50		II	n	**	н	u	
Tetrachloroethene	ND	0.50	"	11		11	"	11	
Toluene	14	0.50	н	n	11	м		**	
1,2,3-Trichlorobenzene	ND	0.50			"	**	IF	**	
1,2,4-Trichlorobenzene	ND	0.50	11	1+		H	H	11	
1,1,1-Trichloroethane	ND	0.50	ıı	"	**		11	li .	
1,1,2-Trichloroethane	ND	0.50	If	*1	**	68	11	H	
Trichloroethene	ND	0.50	*	n	11	19	II	tt	
Trichlorofluoromethane	ND	1.0	**	H	II	**	H	*	
1,2,3-Trichloropropane	ND	0.50	**	**	n		"	**	
1,2,4-Trimethylbenzene	1.7	0.50	**	11	n	**	**	**	
1,3,5-Trimethylbenzene	0.50	0.50	11	Ħ	19	11	ii	**	
Vinyl chloride	ND	0.50		**	**	n	11	11	
Xylenes (total)	9.7	0.50		H	**	"		н	
Surrogate: Dibromofluorom	ethane	102 %	60	-140	u	"	ıı	μ	
Surrogate: 1,2-Dichloroetha		104 %	60	-140	n	*	"	r	
Surrogate: Toluene-d8		99.0 %	60	-140	"	"	**	*	
Surrogate: 4-Bromofluorobe	enzene	89.6 %	60	-140	if	"	"	*	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-3 (MMF0628-05) Soil	Sampled: 06/18/03 17:25	Received: 06/1	9/03 18:4	15					
Benzene	ND	1.7	ug/kg	3.47	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.7	,,	**	*	11	u	**	
Bromochloromethane	ND	1.7	31	11	11	11	"		
Bromodichloromethane	ND	1.7	*	#	"	H	"	H	
Bromoform	ND	1.7	**	ц	II	**	и	11	
Bromomethane	ND	6.9	**	n	II	17	II .	**	
n-Butylbenzene	ND	1.7	n	11	H	n	II	•	
sec-Butylbenzene	ND	1.7	н	,,	*	**	H	31	
tert-Butylbenzene	ND	1.7	ıt	**		"	*	n	
Carbon tetrachloride	ND	1.7	H	**	"	11	W	п	
Chlorobenzene	ND	1.7	n	**	н	II	Iţ	н	
Chloroethane	ND	6.9	"	11		U	11	n .	
Chloroform	ND	1.7	•	п		**	**	••	
Chloromethane	ND		**	II	IJ	**	н	**	
2-Chlorotoluene	ND		,,	rr	Ü	Ħ	н	•	
4-Chlorotoluene	ND		"	**	н	H .	II .	Ħ	
Dibromochloromethane	ND		11	**	H		**	**	
1,2-Dibromoethane (EDB)	ND		n	**	"	u	**	11	
Dibromomethane	ND		n	TÉ	н	11		н	
1,2-Dibromo-3-chloropropa			**	**	n	n	n	11	
1,2-Dichlorobenzene	ND		"	**	H	u	n	н	
1,3-Dichlorobenzene	ND		n	91		н	н	u	
1,4-Dichlorobenzene	ND		H	п	IJ	•	n	H	
Dichlorodifluoromethane	ND		**	11	n		19		
1,1-Dichloroethane	ND		"	**	n	H	19	**	
1,2-Dichloroethane	ND		11	n	**	"	lf.	17	
1,1-Dichloroethene	ND				"	**	n	71	
cis-1,2-Dichloroethene	ND		n	10	*	n	"	11	
trans-1,2-Dichloroethene	ND			**	19	U	17		
	ND		**		**	н		41	
1,2-Dichloropropane 1,3-Dichloropropane	ND			ш	10	Ħ	n	n	
2,2-Dichloropropane	ND		h	n	11	"	u	п	
	ND		11	ш	н	"	11	II.	
1,1-Dichloropropene	ND			b	ш	1/	п	•	
Ethylbenzene	ND		п	**	*	"	н	**	
Hexachlorobutadiene	ND ND		н	н		**	tt.	110	
Isopropylbenzene	ND ND		н		10	11		17	
p-Isopropyltoluene	NE NE		*	и	**	п			
Methylene chloride			,,		*	ш	10		
Naphthalene	ND ND			11		lf.	n	**	
n-Propylbenzene	ND	1.7	**						





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-3 (MMF0628-05) Soil S	Sampled: 06/18/03 17:25	Received: 06/1	9/03 18:	15					
Styrene	ND	1.7	ug/kg	3.47	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	p	"	11	n	н		
1,1,2,2-Tetrachloroethane	ND	1.7	**	**	II .	п	**	"	
Tetrachloroethene	ND	1.7	an an	li .	n	II	я		
Toluene	ND	1.7	"	Ħ	н		Ħ	tt .	
1,2,3-Trichlorobenzene	ND	1.7	**	**	*	п		"	
1,2,4-Trichlorobenzene	ND		п	H	"	**	n	17	
1,1,1-Trichloroethane	ND		17	n	н	14	II.	**	
1,1,2-Trichloroethane	ND			н	H	D	H	11	
Trichloroethene	ND		17	н	"	**	"	H	
Trichlorofluoromethane	ND		n	u	W	a	10	H	
1,2,3-Trichloropropane	ND		11	**	11	n	n	n	
1,2,4-Trimethylbenzene	ND			**	11	••		••	-
1,3,5-Trimethylbenzene	ND		ø		n	11	II	n	
	ND			11	11	п	H	41	
Vinyl chloride	ND		**	н	"	"		n	
Xylenes (total)		108 %	60	-140	"	**	rr .	,,	
Surrogate: Dibromofluorom		116 %		-140	"	"	"	и	
Surrogate: 1,2-Dichloroetha	ine-a4	100 %		-140	"	"	"	pr	
Surrogate: Toluene-d8		100 %		-140	,,	,,		,,	
Surrogate: 4-Bromofluorobe	enzene ND		"	3.47	11	H	n	•	
Ethanol	= ::		31	J.77	*	tt	H	**	
tert-Butyl alcohol	ND	_ -	77				**	11	
Methyl tert-butyl ether	ND				77	**		II.	
Di-isopropyl ether	ND			11	n	u	li	H	
Ethyl tert-butyl ether	ND			H	n	11	**	и	
tert-Amyl methyl ether	ND		"	"	н	н	n	tr	
1,2-Dichloroethane	ND				н	Ħ	n	15	
1,2-Dibromoethane (EDB)	ND					n			<u>-</u>
Surrogate: 1,2-Dichloroethe	ane-d4	116%	60	0-140	IF	н	"	•	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-4 (MMF0628-06) Soil	Sampled: 06/18/03 17:28	Received: 06/1	9/03 18:4	5					
Benzene	ND	1.6	ug/kg	3.16	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.6	н	u	19		17	M	
Bromochloromethane	ND	1.6	14	Ħ	11	н	*	91	1
Bromodichloromethane	ND	1.6		n	")1	**	41	
Bromoform	ND	1.6	11	,,	II	11	"	"	
Bromomethane	ND	6.3	II .	H	H	μ		**	
n-Butylbenzene	ND	1.6	**	II .	н	H	*		
sec-Butylbenzene	ND	1.6	*	**	.,	**	U	**	
tert-Butylbenzene	ND	1.6	22	•	17		**	**	
Carbon tetrachloride	ND	1.6	11	14	•	Ħ	"	II.	
Chlorobenzene	ND	1.6		"	"	**	**	11	
Chloroethane	ND	6.3	"	u	п	11	31	11	
Chloroform	ND	1.6	ji.	н	**	II	11	ır	
Chloromethane	ND	16	H	n	"	H	11	н	•
2-Chlorotoluene	ND		**	**	n	"	11	H-	
4-Chlorotoluene	ND		**		**	**	It	u	
Dibromochloromethane	ND		н	н	**	u	ti	11	
1.2-Dibromoethane (EDB)	ND		"		н	11	II	n	
Dibromomethane	ND		II.	11	п	11	**	*1	
1,2-Dibromo-3-chloropropa	=		п	II	,	и	.#1	н	
1,2-Dichlorobenzene	ND		n	n		H	11	D	
	ND		#		**		11	Ħ	
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND		10	17		H	11	H	
Dichlorodifluoromethane	ND			"	н		n	**	
1,1-Dichloroethane	ND		**	**	11	#	17	11	
· · · · · ·	ND			н	P	п	19	87	
1,2-Dichloroethane	NE		*	H	**	"	n n	41	
1,1-Dichloroethene	ND		п	н	**		и	R	
cis-1,2-Dichloroethene	NE NE		11		n	17	п	H	
trans-1,2-Dichloroethene	NE		и	n	11	,,	ii.		
1,2-Dichloropropane	NE NE		*	**	11		n		
1,3-Dichloropropane	NE		п	11	n.	п	n	**	
2,2-Dichloropropane	NE NE			H	n	n	17	н	
1,1-Dichloropropene				11	п		**	11	
Ethylbenzene	NE				.,		**	n	
Hexachlorobutadiene	NI			19	**	n	11	11	
Isopropylbenzene	NE			,,		,,	IF	17	
p-Isopropyltoluene	NI			"	11	#	11	11	
Methylene chloride	NI				11	11	,,	H	
Naphthalene	2.1			"			17	n	
n-Propylbenzene	NI	1.6	, n	ii		**			





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Auchde	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte			0/03 19+	15					
D-4 (MMF0628-06) Soil S	ND	1.6		3.16	3F30001	06/30/03	06/30/03	EPA 8260B	
Styrene	ND ND	1.6	ug/kg "	J. 10 H	11	N COLUMN	и	11	
1,1,1,2-Tetrachloroethane	=	1.6	u	li	1Ì		п	II	
I,1,2,2-Tetrachloroethane	ND		11	n	æ	н	П		
Tetrachloroethene	ND	1.6		"	,,	н	*	•	
Toluene	9.1	1.6	,,			**	,,	10	
1,2,3-Trichlorobenzene	ND	1.6	"	*	"	п	**	11	
1,2,4-Trichlorobenzene	ND	1.6	" "	. ,	**	If	77	11	
1,1,1-Trichloroethane	ND	1.6	"	" "				11	
1,1,2-Trichloroethane	ND	1.6	,,	"			11	11	
Trichloroethene	ND	1.6		11			и	D	
Trichlorofluoromethane	NĎ	1.6	"		"	"		**	
1,2,3-Trichloropropane	ND	1.6	17	11	"	"	,,		
1,2,4-Trimethylbenzene	2.1	1.6	**	"	"			**	
1,3,5-Trimethylbenzene	ND		,,	H		" "	11	π	•
Vinyl chloride	ND		11	**			**		
Xylenes (total)	8.8	1.6		н	**				
Surrogate: Dibromofluorom	ethane	103 %	60	-140	*		"	"	
Surrogate: 1,2-Dichloroetho		105 %	60	-140	,,	"	"	"	
Surrogate: Toluene-d8		107 %	60	-140	"	"	"	"	
Surrogate: 4-Bromofluorobe	enzene	106 %	60	-140	μ	"	u	μ	
Ethanol	ND	130	*	3.16	н		It	"	
tert-Butyl alcohol	ND	63	10	"	10	H	m .		
Methyl tert-butyl ether	ND	1.6	11	**	**	II	"	11	
Di-isopropyl ether	ND	1.6	н		"	U	**	•	
Ethyl tert-butyl ether	ND		#	**	11	**		**	
tert-Amyl methyl ether	ND			11	17	**		н	
1,2-Dichloroethane	ND		11	•	10	11	н	н	
1,2-Dibromoethane (EDB)	ND			H	**	11	11		
Surrogate: 1,2-Dichloroethe		105 %	60	-140	"	"	н	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

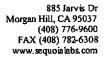
Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

		- quota zxua							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-3 (MMF0628-07) Soil	Sampled: 06/18/03 17:34		<u> 19/03_18:</u>	:45					
Benzene	ND	1.7	ug/kg	3.4	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.7	Н	11	D	**		H	
Bromochloromethane	ND	1.7	п	71	н	**		Pi	
Bromodichloromethane	ND	1.7	II .	11		Н	**	"	
Bromoform	ND	1.7	•	11	**			,,	
Bromomethane	ND	6.8	*	н	"	II		**	
n-Butylbenzene	ND	1.7	**	11	Ħ	Ħ	μ	ft 	
sec-Butylbenzene	ND	1.7	**	II	и	n	**		
tert-Butylbenzene	ND	1.7	н	п	"	11) *		
Carbon tetrachloride	ND	1.7	11	It	11	**	ı,	**	
Chlorobenzene	ND	1.7	"	n	II .	**	11	n	
Chloroethane	ND	6.8	11	**	17	**	17	n	
Chloroform	ND	1.7	н	u	IF.	"	**		
Chloromethane	ND	17	п	11		n	11	a	
2-Chlorotoluene	ND	1.7	11	17		и		u	
4-Chlorotoluene	ND	1.7	*	**	17	II	**	W	
Dibromochloromethane	ND	1.7	n	••	**	н	II	w	
1,2-Dibromoethane (EDB)	ND	1.7	u	31	**	H	li .	Ħ	
Dibromomethane	ND	1.7	44	II .	••	"	IF	11	
1,2-Dibromo-3-chloropropan	ne ND	6.8	H	II.	**	**	**	**	
1,2-Dichlorobenzene	ND	1.7	и	It	*1	19	H	· ·	
1,3-Dichlorobenzene	ND	1.7	**	H	11*	Ħ	**	**	
1.4-Dichlorobenzene	ND	1.7	**	"	10	77	**	11	
Dichlorodifluoromethane	ND	1.7	и ,	**	10	"	TT	11	
1,1-Dichloroethane	ND	1.7	u	**	н	И	77	н	
1,2-Dichloroethane	ND	1.7	IF	**	H	II	**	п	
1,1-Dichloroethene	ND	1.7	•	n		IJ	"	н	
cis-1,2-Dichloroethene	ND	1.7	"	H	**	II	11	P	•
trans-1,2-Dichloroethene	ND	1.7		**	ŧŧ	n	#	"	
1,2-Dichloropropane	ND	1.7	**	11	91	rr	ш	•	
1,3-Dichloropropane	ND	1.7	**	11	*1	"	H	"	
2,2-Dichloropropane	ND	1.7		п	11	17	W	#	
1,1-Dichloropropene	ND	1.7		n	ıt	#	n	#	
Ethylbenzene	ND	1.7	n n	11		**	H	"	
Hexachlorobutadiene	ND	1.7	н	***	н	**	*	**	
Isopropylbenzene	ND	1.7	н	н	*	11	H	н	
p-Isopropyltoluene	ND ND	1.7	**	11	19	п		н	•
Methylene chloride	ND	6.8		**	**	II	u	н	
Naphthalene	ND	1.7	**	11	71	н	**	н	
	ND ND	1.7	н	11		tr	11	н	
n-Propylbenzene	תאו	1.7							

Sequoia Analytical - Morgan Hill





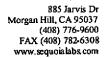
Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/18/03 17:34	Received: 06/	19/03 18	:45					
Styrene	ND	1.7	ug/kg	3.4	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	11	11	11	10	11	н	
1,1,2,2-Tetrachloroethane	ND	1.7	**	н	U	n	**	19	
Tetrachloroethene	ND	1.7	D	H	"	#	li .	79	
Toluene	2.6	1.7	н	II	**	11	11	TF	
1,2,3-Trichlorobenzene	ND	1.7	*1		17	н	**	**	
1,2,4-Trichlorobenzene	ND	1.7	п	v	**	n	н	10	
1,1,1-Trichloroethane	ND	1.7	IF	**	11	**	11	μ	
1,1,2-Trichloroethane	ND	1.7	rŧ	n	11	11	11	н	
Trichloroethene	ND	1.7	**	"	ш	**	"	II .	
Trichlorofluoromethane	ND	1.7	,,	11	н	н	п	H	
1,2,3-Trichloropropane	ND	1.7	17	11	**	11	11		
1,2,3-Trientoropropane	ND	1.7				11	ji .	31	
1,3,5-Trimethylbenzene	ND	1.7	**	н	e	п	H	n	
• •	ND	1.7	11	R		n		H	•
Vinyl chloride	3.6	1.7	n	19	**	"	**	**	
Xylenes (total)		101 %		-140	,,	ji	r	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: Dibromofluorome		101 %		-140 -140	4	,,	•	u	
Surrogate: 1,2-Dichloroethan	1e-a4	100 %		-140	*	#	"	μ	
Surrogate: Toluene-d8		104 %		-140 -140	•	"	"	H	
Surrogate: 4-Bromofluorober			, 60 "	-140 3,4	15	# 1	n	**	
Ethanol	ND	140		3,44 #	**	п	H	и	
tert-Butyl alcohol	ND	68	н		11	H	,,	n	
Methyl tert-butyl ether	ND	1.7	" "		"	,,	,,	"	
Di-isopropyl ether	ND	1.7	"		11	III	#	38	
Ethyl tert-butyl ether	ND	1.7	"	,	 It	19	11	II	
tert-Amyl methyl ether	ND	1.7	"		 Ir	,,	11	II	
1,2-Dichloroethane	ND	1.7		11	" #	" "	11	11	
1,2-Dibromoethane (EDB)	ND	1.7	**						
Surrogate: 1,2-Dichloroethan	ne-d4	108 %	60	-140	**	"	,,	и	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Manufer Manu		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzence ND	Analyte			.,			p		<u> </u>	
Bernzehe ND 1.6 " " " " " " " " " " " " " " " " " " "	PL-4 (MMF0628-08) Soil	Sampled: 06/18/03 17:40	Received: 06/	/19/03 18:						
Bromochloromethane	Benzene							06/30/03		
Bromochloromethane ND	Bromobenzene							"		
Bromofichtomethane ND	Bromochloromethane	<u>-</u>								
Bromomethane										
Brommethane	Bromoform									
n-Butylbenzene	Bromomethane								n	
sec-Butylbenzene ND 1.6 tert-Butylbenzene ND 1.6 Carbon tetrachloride ND 1.6 Chlorobenzene Chlorobenzene ND 1.6 Chlorobenzene Chlorobenzene ND 1.6 Chlorobenzene Chlorobenzene ND 1.6 Chlorobenzene Chloroben	n-Butylbenzene									
tert-Butylbenzene ND 1.6 " " " " " " " " " " " " " " " " " " "										
Carbon tetrachloride	tert-Butylbenzene				-				 H	
Chlorobenzene ND 1.6									DE	
Chloroform	Chlorobenzene									
Chloroform Chloromethane ND 16 ND 16 ND 16 ND 1.6 N	Chloroethane	=							,,	
Chlorotoluene									n	
2-Chlorotoluene ND 1.6 " " " " " " " " " " " " " " " " " " "	Chloromethane									
A-Chlorotoluene ND 1.6	2-Chlorotoluene				-				*1	
Dibromochloromethane ND	4-Chlorotoluene							It	н	
1,2-Dibromoethane (EDB) ND 1.6									н	
Dibromomethane	1,2-Dibromoethane (EDB)								n	
1,2-Dibromo-3-chloropropane ND 6.3 """"""""""""""""""""""""""""""""""""		_								•
1,2-Dichlorobenzene ND 1.6 1,3-Dichlorobenzene ND 1.6 1,4-Dichlorobenzene ND 1.6 Dichlorodifluoromethane ND 1.6 1,1-Dichloroethane ND 1.6 1,2-Dichloroethane ND 1.6 1,1-Dichloroethene ND 1.6 1,1-Dichloroethene ND 1.6 1,2-Dichloroethene ND 1.6 trans-1,2-Dichloroethene ND 1.6 1,2-Dichloropropane ND 1.6 1,2-Dichloropropane ND 1.6 1,3-Dichloropropane ND 1.6 2,2-Dichloropropane ND 1.6 1,1-Dichloropropane ND 1.6 1,1-Dichloropropene ND 1.6 Ethylbenzene ND 1.6 Hexachlorobutadiene ND 1.6 Isopropyltoluene ND 1.6 P-Isopropyltoluene ND 1.6 Methylene chloride ND 6.3 Naphthalene ND 1.6	1,2-Dibromo-3-chloropropar								10	
1,3-Dichlorobenzene ND 1.6 1,4-Dichlorodifluoromethane ND 1.6 1,1-Dichloroethane ND 1.6 1,2-Dichloroethane ND 1.6 1,1-Dichloroethane ND 1.6 1,1-Dichloroethene ND 1.6 1,1-Dichloroethene ND 1.6 cis-1,2-Dichloroethene ND 1.6 trans-1,2-Dichloroethene ND 1.6 1,2-Dichloropropane ND 1.6 1,3-Dichloropropane ND 1.6 1,3-Dichloropropane ND 1.6 1,1-Dichloropropane ND 1.6 1,	1,2-Dichlorobenzene							11	н	
1,4-Dichloromethane	•							**		
Dichlorodifluoromethane ND 1.6 """"""""""""""""""""""""""""""""""""	•								п	
1,1-Dichloroethane ND 1.6 """"""""""""""""""""""""""""""""""""					•				n	
1,2-Dichloroethane ND 1.6 """"""""""""""""""""""""""""""""""""									H	
1,1-Dichloroethene ND 1.6 """"""""""""""""""""""""""""""""""""	,	•						11	н	
cis-1,2-Dichloroethene ND 1.6 trans-1,2-Dichloroethene ND 1.6 " 1,2-Dichloropropane ND 1.6 " " 1,3-Dichloropropane ND 1.6 " " 2,2-Dichloropropane ND 1.6 " " 1,1-Dichloropropane ND 1.6 " " Ethylbenzene ND 1.6 " " Hexachlorobutadiene ND 1.6 " " Isopropylbenzene ND 1.6 " " p-Isopropyltoluene ND 1.6 " " Methylene chloride ND 6.3 " " Naphthalene ND 1.6 " "									77	
trans-1,2-Dichloroethene 1,2-Dichloropropane ND 1.6 1,3-Dichloropropane ND 1.6 2,2-Dichloropropane ND 1.6 1,1-Dichloropropene ND 1.6 1,1-Dichloropropene ND 1.6 1.6 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8	-					-		**	77	
1,2-Dichloropropane ND 1.6 " <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>**</td> <td></td>	•								**	
1,3-Dichloropropane ND 1.6 2,2-Dichloropropane ND 1.6 1,1-Dichloropropene ND 1.6 Ethylbenzene ND 1.6 Hexachlorobutadiene ND 1.6 Isopropylbenzene ND 1.6 p-Isopropyltoluene ND 1.6 Methylene chloride ND 6.3 Naphthalene ND 1.6			-						11	
2,2-Dichloropropane ND 1.6 " <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,,</td> <td></td> <td>11</td> <td></td>	,						,,		11	
1,1-Dichloropropene ND 1.6 " <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>II</td> <td></td>	,								II	
Ethylbenzene ND 1.6 Hexachlorobutadiene ND 1.6 " " " " " " " " " " " " " " " " " " "									H	
Hexachlorobutadiene				•				11	n	
Isopropylbenzene									n	
p-Isopropyltoluene ND 1.6 " Methylene chloride ND 6.3 " " " " " " " " " " " " " " " " " " "									10	
Methylene chloride ND 6.3 " Naphthalene ND 1.6 " " " " " " " " " " " " " " " " " " "								11	II.	
Naphthalene ND 1.6 "	-									
n-Propylbenzene ND 1.6 "		'								
	n-Propylbenzene	ND	1.6	,,	"	,,				

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

		диота Апа	-J						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-4 (MMF0628-08) Soil San	npled: 06/18/03 17:40	Received: 06/	19/03 18	:45					
Styrene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	"	*	*	"	"	u	
1,1,2,2-Tetrachloroethane	ND	1.6	11		n	17	"	**	
Tetrachloroethene	ND	1.6	ıı	м		н	#	"	
Toluene	ND	1.6	11	**	*	"	II	u	,
1,2,3-Trichlorobenzene	ND	1.6	**	"	II .		tt	*1	
1,2,4-Trichlorobenzene	ND	1.6	н	IJ	ш	II	10	11	•
1,1,1-Trichloroethane	ND	1.6	17	н	n	II	и	H	
1,1,2-Trichloroethane	ND	1.6	"	11	*	"	*	H	
Trichloroethene	ND	1.6	н	D			"	n	•
Trichlorofluoromethane	ND	1.6	11	н)+	**	"		
1,2,3-Trichloropropane	ND	1.6	11	"	"	**	u	17	
1,2,4-Trimethylbenzene	ND	1.6		10	**	*	"	**	•
1,3,5-Trimethylbenzene	ND	1.6	tř	n	n n		H	11	
Vinyl chloride	ND	1.6	Ħ	н	II	μ	IF	и	
Xylenes (total)	ND	1.6	19	п	II .	u	"	п	
Surrogate: Dibromofluorometha	ine	105 %	60	-140	,,	и	"		
Surrogate: 1,2-Dichloroethane-c	116 111	113 %		-140	,,	**	"	н	
	<i>.</i> • • • • • • • • • • • • • • • • • • •	104 %		-140	,,	"	n	ır	
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenze	n a	104 %		140	*	**	"	"	
-	ne ND	130	11	3.14	н	μ	11	n	
Ethanol	ND	63	н	11	н		n	π	
tert-Butyl alcohol	ND	1.6	11	11	n	II	Ħ	11	
Methyl tert-butyl ether	ND	1.6	H	н	11	11		11	
Di-isopropyl ether	ND	1.6	17	п	*	IF	n	μ	
Ethyl tert-butyl ether	ND ND	1.6		,,		11	11	н	
tert-Amyl methyl ether	ND ND	1.6	•	и	**	**	u	**	
1,2-Dichloroethane	ND ND	1.6	н	17	11	n	11	**	
1,2-Dibromoethane (EDB) Surrogate: 1,2-Dichloroethane-	· · · · · · · · · · · · · · · · · · ·	113 %	60)-140	,,	"	μ	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

		quoia Aiia	lytical	- 11101 gr	411 44111				
Analyte	Result	Reporting. Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-7 (MMF0628-09) Soil	Sampled: 06/18/03 18:26	Received: 06/	19/03 18	:45					
Ethanol	ND	10	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	5.0	н	II .	44	п	Ħ		
Methyl tert-butyl ether	ИD	0.025	11	n	II	H	tt	**	
Di-isopropyl ether	ND	0.025	11	"	H	11	19	**	
Ethyl tert-butyl ether	ND	0.025	ıt	,		17	**	*1	
tert-Amyl methyl ether	ND	0.025	н	**	11	"	н	+1	
1,2-Dichloroethane	ND	0.025	**	Ħ	77	н	11	11	
1,2-Dibromoethane (EDB)	ND	0.025	*	"			<u>.</u>		
Surrogate: 1,2-Dichloroetho	ane-d4	96.8 %	60-	-140	,,	#	11	r	*
Benzene	ND	0.050	**	н	п	u	n	12	
Bromobenzene	ND	0.050	μ	*	H	W		17	
Bromochloromethane	ND	0.050	н		ır	"	"	11	
Bromodichloromethane	ND	0.050	"	19	łı	**	**	**	
Bromoform	ND	0.050	*	17	**	11	94	11	
Bromomethane	ND	0.20	17	**		п	11	п	
n-Butylbenzene	0.084	0.050	**	н	н	ш	н	H	
sec-Butylbenzene	ND	0.050	н	п	II .	· n	**	n	
tert-Butylbenzene	ND	0.050	11	**	#	**	ıı .	17	
Carbon tetrachloride	ND	0.050	11	**	"	a.	17		
Chlorobenzene	ND	0.050	н .	17	**	H	**	**	
Chloroethane	ND	0.20	**	44	17	**	**	**	
Chloroform	ND	0.050	"	*	11		11	"	
Chloromethane	ND	0.20	**	11	н	11	11		
2-Chlorotoluene	ND	0.050	**	н	ii	H	,,	"	
4-Chlorotoluene	ND	0.050	11	IP	IP	11	"		
Dibromochloromethane	ND	0.050	и	"		**	"	"	
1,2-Dibromoethane (EDB)	ND	0.050	11	"				**	
Dibromomethane	ND	0.050	**	'n	**	41 11	1	"	
1,2-Dibromo-3-chloropropa		0.10	17	11	**	ir O	11	"	
1,2-Dichlorobenzene	ND	0.050	20		# U	11			
1,3-Dichlorobenzene	ND	0.050	**		II H	" "	"		
1,4-Dichlorobenzene	ND	0.050	1)	ır 		n	"	 N	
Dichlorodifluoromethane	ND	0.050	11	"	19	,, H			
1,1-Dichloroethane	ND	0.050		"	"	"			
1,2-Dichloroethane	ND	0.050	,,	"	,	"	"	"	
1,1-Dichloroethene	ND	0.050	If	"	"	,,	"		
cis-1,2-Dichloroethene	ND	0.050	,,	11	"	"			
trans-1,2-Dichloroethene	ND	0,050		H H	"	" "	'' H		
1,2-Dichloropropane	ND	0.050		**	"		,,		
1,3-Dichloropropane	ND	0.050	II	"	"	17	**	- -	

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-7 (MMF0628-09) Soil S	ampled: 06/18/03 18:26	Received: 06/	19/03 18	45				· · · · · · · · · · · · · · · · · · ·	<u></u>
2,2-Dichloropropane	ND	0.050	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	0.050		II		**	н	•	
Ethylbenzene	ND	0.050	11	μ	11	11	**	н	
Hexachlorobutadiene	ND	0.050	II .	11	II	ਜ	н	u	
Isopropylbenzene	ND	0.050	H	**	n	"	"	"	
p-Isopropyltoluene	ND	0.050	"	**	н	11	11	tr	
Methylene chloride	ND	0.050	**	**	11	n	lt	"	
Naphthalene	0.21	0.20	"	11	**	**	tt	H .	
n-Propylbenzene	ND	0.050	"	· ·	H	**	**	**	
Styrene	ND	0.050	н	n	11	19	17	**	
1,1,1,2-Tetrachloroethane	ND	0.050	н	н	Ħ	r	"	**	
1,1,2,2-Tetrachloroethane	ND	0.050	"	11	"	H	11	II .	
Tetrachloroethene	ND	0.050	۳.	"	11	19	и	**	
Toluene	ND	0.050	*	. н	11	U	H	"	
1,2,3-Trichlorobenzene	ND	0.050	**	ш		n	n	**	
1,2,4-Trichlorobenzene	ND	0.050	n	н	11	"	"	77	
1,1,1-Trichloroethane	ND	0.050	II .	u	и	**	••	**	
1,1,2-Trichloroethane	ND	0.050	Ħ	19	н	11	**	11	
Trichloroethene	ND	0.050		n	н	19	Н	11	
Trichlorofluoromethane	ND	0.10	**	11	10	II	(1	II.	
1,2,3-Trichloropropane	ND	0.050	n	11	n	H	11	"	
1,2,4-Trimethylbenzene	0.43	0.050	11	II .	**	H	**	II .	
1,3,5-Trimethylbenzene	0.17	0.050	"	11	II .	10	**	n	
Vinyl chloride	ND	0.050	H	**	n	**	*1	"	
Xylenes (total)	0.14	0.050	ŧŧ	***		- 11		11	·
Surrogate: Dibromofluorome		97.6 %	60	-140	"	"	,,	. "	
Surrogate: 1,2-Dichloroethar		96.8 %		-140	*	*	"	и	
Surrogate: Toluene-d8	16-W7	107 %		-140	H	'n	n	17	
Surrogate: 4-Bromofluorobei	nzene	87.8 %		-140	n	a	r	rr .	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

		Reporting					•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-5 (MMF0628-10) Soil S	Sampled: 06/18/03 18:30	Received: 06/1	9/03 18:4	5					
Benzene	ND	1.5	ug/kg	3.09	3F30001	06/30/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5	11	н	ir	11	#	n	
Bromochloromethane	ND	1.5	11	"	IF	11	11	"	
Bromodichloromethane	ND	1.5	11		IF	н	*	19	
Bromoform	ND	1.5	п	"	**	II	*	18	
Bromomethane	ND	6.2	II	n	H	If	n	17	
n-Butylbenzene	ND	1.5	u	n	**	II .	n	H	
sec-Butylbenzene	ND	1.5	H	ti		*	"	**	
tert-Butylbenzene	ND	1.5	H	п	10	H	а	••	
Carbon tetrachloride	ND	1.5		IF	17	**	**	11	
Chlorobenzene	ND	1.5	**		n		11	п	
Chloroethane	ND	6.2	**	"	**	**	н	н	
Chloroform	ND	1.5	**	n		17 '	н	n	
Chloromethane	ND	15	н	н	11	11	n	н	
2-Chlorotoluene	ND	1.5	"	**	11	**	a a	н	
4-Chlorotoluene	ND	1.5	*1	11	11	"	Ħ	ıı	
Dibromochloromethane	ИD	1.5	**	π.	n	11	H	ıı .	•
1,2-Dibromoethane (EDB)	ND	1.5	"	Ħ	II.	11	H	Ħ	
Dibromomethane	ND	1.5	**		11	11	"	н	
1,2-Dibromo-3-chloropropar		6.2	п	**	n	11		tt	
1.2-Dichlorobenzene	ND	1.5	n	W	n	п	•	н	
1,3-Dichlorobenzene	ND	1.5	ıı	W	н	II	11	**	
1,4-Dichlorobenzene	ND	1.5	п	**		"	#	•	
Dichlorodifluoromethane	ND	1.5	D	н	м	n	*		
1.1-Dichloroethane	ND	1.5	н	п	**	p	Ð	"	
1,2-Dichloroethane	ND	1.5	**	μ	**	n	**	#	
1,1-Dichloroethene	ND	1.5		10	77	**	**	**	
cis-1,2-Dichloroethene	ND	1.5		II		•	"	11	
trans-1,2-Dichloroethene	ND	1.5	17	11	**	17	a	n	
1,2-Dichloropropane	ND		11	n	11	"	11	"	
1,3-Dichloropropane	ND	1.5	**	"	16		H .	0	
2,2-Dichloropropane	ND		11	u	н		н	e	
1,1-Dichloropropene	ND		**	4	n		n		
Ethylbenzene	ND	1.5	**	**	п	ч	н	•	
Hexachlorobutadiene	ND		11	11	11:	#	п	*	
Isopropylbenzene	ND ND		**	77	H	11	u	п	
p-Isopropyltoluene	ND ND	1.5	11	Ħ	P	H	H	11	
Methylene chloride	ND ND		11			n	н	11	
	ND ND	1.5	*1	н	17	n	H	n	
Naphthalene	ND ND	1.5	н		H	ıl	n	11	
n-Propylbenzene	ND	1.3							

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
D-5 (MMF0628-10) Soil S:	ampled: 06/18/03 18:30	Received: 06/1	9/03 18:	45						
Styrene	ND	1.5	ug/kg	3.09	3F30001	06/30/03	07/01/03	EPA 8260B		
1,1,1,2-Tetrachloroethane	ND	1.5	н	**	11	и		Ħ		
1,1,2,2-Tetrachloroethane	ND	1.5	**	n	H	19	**	14		
Tetrachloroethene	ND	1.5	11	"	•	17	11	н		
Toluene	ND	1.5	D.	11	11	"	II	17	•	
1,2,3-Trichlorobenzene	ND	1.5	11	n	ш	#	lŧ	n		
1,2,4-Trichlorobenzene	ND	1.5	10	II	IF	*1	H	**		
1.1.1-Trichloroethane	ND	1.5	н	11	"	Ħ	**	"		
1.1,2-Trichloroethane	ND	1.5	"	**	**	II .		11		
Trichloroethene	ND	1.5	n	u	**	17	*7	11		
Trichlorofluoromethane	ND	1.5		19	ır	n	**	li .		
1,2,3-Trichloropropane	ND	1.5	"	n	"			II.	;	
1,2,4-Trimethylbenzene	ND	1.5	**	11		11	n	n		
1,3,5-Trimethylbenzene	1.9	1.5	n	11	"	,,,	11	"		
Vinyl chloride	ND	1.5	n	п	п	"	11			
Xylenes (total)	ND		ш	II	"	**	D	u		
		102 %	61	0-140	,,	,,	u	r		
Surrogate: Dibromofluorome		114 %		7-140 7-140	,,	,,	IF	"		
Surrogate: 1,2-Dichloroethan	ne-a4	106 %		0-140 0-140	"	"	"	,,		
Surrogate: Toluene-d8)-140)-140	"	и	*	"		
Surrogate: 4-Bromofluorobei		106 %	,,	3.09	**	**	71	44		
Ethanol	ND		**	3.09	,	ır	н	11		
tert-Butyl alcohol	ND			н	11	n	11	**		
Methyl tert-butyl ether	ND		"	11	ii		11	11		
Di-isopropyl ether	ND		,,	 11		11	n	**		
Ethyl tert-butyl ether	ND		"	"	,	 II	н	н		
tert-Amyl methyl ether	ND							71		
1,2-Dichloroethane	ND		11		"	" "	,,			
1,2-Dibromoethane (EDB)	ND	1.5								
Surrogate: 1,2-Dichloroetha	ne-d4	114 %	6	0-140	"	,,	"	"		





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

A _ 1.4-	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte		****							
	Sampled: 06/18/03 18:42	1000		100	3G01002	07/01/03	07/01/03	EPA 8260B	
Ethanol	ND	500	mg/kg "	100	3001002 #	"	"	"	
tert-Butyl alcohol	ND	2.5	**	,	77	u	н	17	
Methyl tert-butyl ether	ND				,,	н	u	19	
Di-isopropyl ether	ND	2.5		,,	11	п	#		
Ethyl tert-butyl ether	ND	2.5		11		a	11	11	
tert-Amyl methyl ether	ND	2.5			il.	,,		11	
1,2-Dichloroethane	ND		,,	"	"	n	11	п	
1,2-Dibromoethane (EDB)	ND							,,	
Surrogate: 1,2-Dichloroet	hane-d4	103 %		-140	tr .	"	"	"	
Benzene	7.0	5.0	**	100	"				
Bromobenzene	ND	5.0	"	n	#	"	11		
Bromochloromethane	ND	5.0	n		"	11	"	•	
Bromodichloromethane	ND	5.0	п	n	"	н		"	
Bromoform	, ND	5.0	D	. "	**		n	**	
Bromomethane	ND	20	"	"	D.	rr	н	и	
n-Butylbenzene	7.7	5.0	**	II	**	**	"	II	
sec-Butylbenzene	ND	5.0	17	П	**	**	И	п	
tert-Butylbenzene	ND	5.0	n	11		77	н	U	
Carbon tetrachloride	ND	5.0	**	H	•	•	II	ıı	
Chlorobenzene	ND	5.0	11		•	94	*		
Chloroethane	ND	20	н	11		И	*	10	
Chloroform	ND		н	11	н	D.	17	**	
Chloromethane	ND	20	H		II .	**	•	"	•
2-Chlorotoluene	ND	5.0		11	11	10	"	"	
4-Chlorotoluene	ND		10	lit	11	•	18	II	
Dibromochloromethane	ND		11	0	17	tt	н	n	
1,2-Dibromoethane (EDB)				**	17	**	**	rt	
Dibromomethane	NE		11	11	79	"	Ħ	n	
1,2-Dibromo-3-chloroprop			li	**	14	11		10	
1,2-Dichlorobenzene	pane NE		IF	.,	#	11	н	'n	
•	NE NE		**	41	н	H	n		
1,3-Dichlorobenzene	NE			**	H		п	11	
1,4-Dichlorobenzene	NE NE		••	п	н		44	11	
Dichlorodifluoromethane	NI NI		n	lt.		*	n	п	
1,1-Dichloroethane	NI NI						п	H	
1,2-Dichloroethane		= -	11			**	н	n	
1,1-Dichloroethene	NE				"	11		11	
cis-1,2-Dichloroethene	NI				"	n	••	**	
trans-1,2-Dichloroethene	NE				11	H	n	,,	
1,2-Dichloropropane	NI			11		н	n	n	
1,3-Dichloropropane	NI	5.0	"	"	•	**			•

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-6 (MMF0628-11) Soil	Sampled: 06/18/03 18:42	Received: 06/1	9/03 18:	45					
2,2-Dichloropropane	ND	5.0	mg/kg	100	3G01002	07/01/03	07/01/03	EPA 8260B	
1,1-Dichloropropene	ND	5.0	D	u	ii	11	u	"	
Ethylbenzene	55	5.0	"	"	II	"	II .	"	
Hexachlorobutadiene	ND	5.0	"	n	It	"	"	"	
Isopropylbenzene	ND	5.0	II .	55		19	u n	" It	
p-Isopropyltoluene	ND	5.0	н	11	U.	И	•	"	
Methylene chloride	ND	5.0	D	**	1+	II	H		
Naphthalene	ND	20		11	"		**	,	
n-Propylbenzene	13	5.0	# .	Н	"	"	п	*	
Styrene	ND	5.0	"	H	н	II	н	"	
1,1,1,2-Tetrachloroethane	ND	5.0	10	"	II	n	II.		
1,1,2,2-Tetrachloroethane	ND	5.0	łş	"	H	•• .	n	"	
Tetrachloroethene	ND	5.0	п	я	"	11	**	# II	
Toluene	230	5.0	"	**	"	н	11	"	
1,2,3-Trichlorobenzene	ND	5.0	"	11	12	11	и		
1,2,4-Trichlorobenzene	ND	5.0	4	U	"	11	•		
1,1,1-Trichloroethane	ND	5.0	Ħ	II	н	"	19	**	
1,1,2-Trichloroethane	ND	5.0	,	н	"	"	II		
Trichloroethene	ND	5.0	"	**	n	#	II .	11	
Trichlorofluoromethane	ND	10	И	**	II	"	H	••	
1,2,3-Trichloropropane	ND	5.0	II .	**	Ħ	",	"	**	
1,2,4-Trimethylbenzene	110	5.0	li .	n	н	Ħ	. n	41	
1,3,5-Trimethylbenzene	31	5.0	Ħ	**	"	11	. 10	li .	
Vinyl chloride	ND	5.0	"	#	n	n	"	II .	
Xylenes (total)	350	5.0	4	II		n		. <u>.</u>	
Surrogate: Dibromofluoro	methane	97.6 %	60	-140	"	17	"	rr	
Surrogate: 1,2-Dichloroet		103 %	60	-140	"	*	u	"	
Surrogate: Toluene-d8		102 %	60	-140	18	*	π	rr	
Surrogate: 4-Bromofluoro	benzene	85.2 %	60)-140	u	"	p	#	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/18/03 18:47	Received: 06/	19/03 18	:45					
Benzene	ND	1.7	ug/kg	3.42	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.7	n	u	R	11	II	11	
Bromochloromethane	ND	1.7	11	H	п		н		
Bromodichloromethane	ND	1.7	II .	"	"	10	"	••	
Bromoform	ND	1.7	н	17	"	п	11	11 	
Bromomethane	ND	6.8	*	**	11	11	77		
n-Butylbenzene	ND	1.7	"	и	II	tt.		н	
sec-Butylbenzene	ND	1.7	19	и	н	!!	11	n.	
tert-Butylbenzene	ND	1.7	•	11		**	H		
Carbon tetrachloride	ND	1.7	**	n		·i	II	**	
Chlorobenzene	ND	1.7	н	**	19	"	H	#	
Chloroethane	ND	6.8	II .	10	**	11	"	••	•
Chloroform	ND	1.7	n	11	**	11	,,	11	
Chloromethane	ND	17		H	IF	H	Ħ	11	
2-Chlorotoluene	ND	1.7	**	n	n		**		4
4-Chlorotoluene	ND	1.7	,	. п	,,		и	**	
Dibromochloromethane	ND	1.7	"	· u	47	"	II .	"	
1,2-Dibromoethane (EDB)	ND	1.7	11	H	**	н	п	11	
Dibromomethane	ND	1.7	н	**	"	11	**	T	
1,2-Dibromo-3-chloropropar		6.8	**	11	**	ш	•	**	
1.2-Dichlorobenzene	ND	1.7	"	- 0	11	п	**	**	
1,3-Dichlorobenzene	ND	1.7	19	- 11	Iŧ	**	"	"	
1,4-Dichlorobenzene	ND	1.7	71	u		Ħ	"		
Dichlorodifluoromethane	ND	1.7		n	10	10	11	H	
1,1-Dichloroethane	ND	1.7	11	**	71	11	п	**	
1,2-Dichloroethane	ND	1.7	п	u	н	11 -	**	п	
1.1-Dichloroethene	ND	1.7	**	•	11	If	11	**	
cis-1,2-Dichloroethene	ND	1.7	**	9	11	U	**	H	
trans-1,2-Dichloroethene	ND	1.7	п	11	ır	Ħ	"	11	
1,2-Dichloropropane	ND	1.7	17	н	n	ır.	II .	31	
1,3-Dichloropropane	ND	1.7		u	**	п	н	11	
2,2-Dichloropropane	ND	1.7	n	Ħ	19		п	11	
1,1-Dichloropropene	ND	1.7	н		н	n	II	**	
Ethylbenzene	ND	1.7	H	#	**	11	11	н	
Hexachlorobutadiene	ND	1.7	**	"	п	IP	••	6	
Isopropylbenzene	ND	1.7	•	11	n	ri	a	vi	
p-Isopropyltoluene	ND	1.7	n	'n	11	н	¥	H	
Methylene chloride	ND	6.8	**	II .		"		н	
Naphthalene	ND	1.7	**	ıı.	.,	*	**	11	
-	ND	1.7	u	H	19		11	H	
n-Propylbenzene	ND	1.7							





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

	31	equota Ana	1yticai	- Minis	HIL LEIII		. 		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-9 (MMF0628-12) Soil Sai	mpled: 06/18/03 18:47	Received: 06/	19/03 18	:45					
Styrene	ND	1.7	ug/kg	3.42	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.7	n	41	"		17	**	
1,1,2,2-Tetrachloroethane	ND	1.7	II .	"	**	11	Ħ	н	
Tetrachloroethene	ND	1.7	11	"	н	77	**	п	
Toluene	ND	1.7		19	II	"	17	II .	
1,2,3-Trichlorobenzene	ND	1.7	н	tŧ	n	**	н	II .	
1,2,4-Trichlorobenzene	ND	1.7		**	"	н	"	n	
1,1,1-Trichloroethane	ND	1.7	14	**	**	II .	"	•	
1,1,2-Trichloroethane	ND	1.7	н		"	17	ji	**	
Trichloroethene	ND	1.7	н				ır	n	
Trichlorofluoromethane	ND	1.7	n	U	"	**	H		
1,2,3-Trichloropropane	ND	1.7	н	II.	"	11	"	"	
1,2,4-Trimethylbenzene	ND	1.7	n		**	"	"	п	
1,3,5-Trimethylbenzene	ND	1.7	*	u	н	**	11	п	
Viny! chloride	ND	1.7	**	H	11	п	•	PF	
Xylenes (total)	ND	1.7	**	11	10	U	11		
Surrogate: Dibromofluorometh	ne	104 %	60	-140	"	11	μ	rr .	
Surrogate: 1,2-Dichloroethane-		103 %	60	-140	,,	"	"	**	
Surrogate: Toluene-d8	uv	97.4 %		-140	"	**	"	*	
Surrogate: 10thene-uo Surrogate: 4-Bromofluorobenze	na .	101 %		-140	n	"	11	*	
=	ne ND	140	"	3,42	H	u	u	#1	
Ethanol	ND	68	17		11	11	77	ш	
tert-Butyl alcohol	ND	1.7		p	**	п	**	п	
Methyl tert-butyl ether	ND ND	1.7			**	н	11	,,	
Di-isopropyl ether	ND ND	1.7	**	11	"		н	••	
Ethyl tert-butyl ether	ND ND	1.7		ш	11	1+	D	**	
tert-Amyl methyl ether	ND ND	1.7	11	н	II	19	"	11	
1,2-Dichloroethane	ND ND	1.7				н	ıı	15	
1,2-Dibromoethane (EDB)						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	π		
Surrogate: 1,2-Dichloroethane-	·d4	103 %	60)-140	*	-			•





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 06/19/03 08:25	Received: 00	6/19/03 1	8:45					
Benzene	ND	1.9	ug/kg	3.73	3G02004	07/02/03	07/03/03	EPA 8260B	
Bromobenzene	ND	1.9	n	n	**	II		п	
Bromochloromethane	ND	1.9	II .	**	39	П	и	H	
Bromodichloromethane	ND	1.9	"	**	n	n	17	H	
Bromoform	ND	1.9	II .	11	н	H	**	n	
Bromomethane	ND	7.5	n	II	н		Ħ	**	
n-Butylbenzene	ND	1.9	"	H	II .	11	**	π	
sec-Butylbenzene	ND	1.9	"	п	n	**	**	**	
tert-Butylbenzene	ND	1.9	"	H		H	u	n	
Carbon tetrachloride	ND	1.9	# .			H	11	11	
Chlorobenzene	ND	1.9	н	•	"	11	11	н	
Chloroethane	ND	7.5	**		**		11	11	
Chloroform	ND	1.9	10	n	**	"	II	**	
Chloromethane	ND	19	**	11	н	19	H	11	•
2-Chlorotoluene	ND	1.9	11	rr	11	11	"	11	
4-Chlorotoluene	ND	1.9	н	W	u	u	**	**	
Dibromochloromethane	ND	1.9	п	11	11	D	**	**	
1,2-Dibromoethane (EDB)	ND	1.9	н	11	II	н	11	II .	
Dibromomethane	ND	1.9	H	п	II	"	**	rr .	
1,2-Dibromo-3-chloropropane		7.5	**	II .	tt		**	II.	
1,2-Dichlorobenzene	ND	1.9	10	ш	п	**	"	H	
1,3-Dichlorobenzene	ND	1.9		Ut.	H	51	**	"	
1.4-Dichlorobenzene	ND	1.9	**	*	11	**		"	
Dichlorodifluoromethane	ND	1.9	19	"	11	77	44	••	
1.1-Dichloroethane	ND	1.9	Ħ	**			n	**	
1,2-Dichloroethane	ND	1.9	"	*	n	*1	11	•	
1,1-Dichloroethene	ND	1.9		π	**	**	II .	**	
cis-1,2-Dichloroethene	ND	1.9	11	n	**	"	U	"	
trans-1,2-Dichloroethene	ND	1.9	11		и	и	R	n	
1,2-Dichloropropane	ND	1.9	n	**	"	H	n		
1,3-Dichloropropane	ND	1.9		**	**	"	"	**	
2,2-Dichloropropane	ND	1.9	n	ш	и	n	u	**	
1,1-Dichloropropene	ND	1.9	,,	п	IF		**	11	
Ethylbenzene	ND	1.9		1f	17	**	₩	u	
Hexachlorobutadiene	ND	1.9	**	**	"	**	"	11	
Isopropylbenzene	ND	1.9	11	**	"	n	***	II .	
p-Isopropyltoluene	ND ND	1.9	11	•	**	11	***	11	
Methylene chloride	ND	7.5	**	**	**		·	U	
Naphthalene	ND	1.9	11	n		n	II	H	
-	ND ND	1.9	11	n	н	11	п	н	
n-Propylbenzene	מא	1.9							

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-10 (MMF0628-13) Soil Sar	npled: 06/19/03 08:25	Received: 00	5/19/03 1	18:45					
Styrene	ND	1.9	ug/kg	3.73	3G02004	07/02/03	07/03/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.9	78	II .	н	"	11	10	
1,1,2,2-Tetrachloroethane	ND	1.9	*	II .	II	n	It	11	
Tetrachloroethene	ND	1.9	**	Ħ	II	**	Ħ	.,	
Toluene	ND	1.9	**	**	H	**	"	11	
1,2,3-Trichlorobenzene	ND	1.9	**	**	"	11	"	"	
1,2,4-Trichlorobenzene	NĎ	1.9	н	H	u	**	#	*1	
1.1.1-Trichloroethane	ND	1.9	"	**	Ħ	"	*	11	
1,1,2-Trichloroethane	ND	1.9	n	44	**	II		II .	
Trichloroethene	NĐ	1.9	**	н	И	tt	n	IF.	
Trichlorofluoromethane	ND	1.9	••	n	n	11	p	IF	
1,2,3-Trichloropropane	ND	1.9	"	lı	н	"	II	n	
1,2,4-Trimethylbenzene	ND	1.9	"	**	п	**	D		
1,3,5-Trimethylbenzene	ND	1.9	**	"	n	19	"	14	
Vinyl chloride	ND	1.9	н	и	n	**	"	н	*
Xylenes (total)	ND	1.9	IJ	n	17	**	*	п	
Surrogate: Dibromofluoromethan		89.0 %	61)-140	п	v	"	,,	•
Surrogate: 1,2-Dichloroethane-d		97.2 %		0-140	m	"	*	"	
Surrogate: Toluene-d8	7	91.4 %)-140	"	"	,,	,,	
Surrogate: 4-Bromofluorobenzen	a	95.4 %)-140	•	n	v	u	
Ethanol	e ND	150	19	3.73	п		н	H	
	ND ND	75		11	ır	w	rt	"	
tert-Butyl alcohol	ND ND	1.9	**	19	**	"	,,	**	•
Methyl tert-butyl ether	ND	1.9	11	¥r		**		**	
Di-isopropyl ether	ND	1.9	**	н	**		*	h	
Ethyl tert-butyl ether	ND ND	1.9		**		п	**		
tert-Amyl methyl ether	ND	1.9	**	a	11	n	u		
1,2-Dichloroethane	ND DN	1.9	,,	п	11		ч	11	
1,2-Dibromoethane (EDB) Surrogate: 1,2-Dichloroethane-di		97.2 %	6	0-140	"	H.	"	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Description	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene		Sampled: 06/19/03 08:45	Received: 06/1	9/03 18:4	15					
Bromochoromethane						3F30001	06/30/03	07/01/03	EPA 8260B	
Bromochloromethane	=				н	**	II .	IF	11	
Bromodichloromethane ND				n	II .	**	**	"	19	
Bromoform ND			1.6	įI.	n	#		*1	"	
Bromomethane ND 1.6			1,6	H	"	II	n	tr	"	
No.	= :		6.3	н	**	IF.	n	11	11	
sec-Butylbenzene ND 1.6 " " " " " " " " " " " " " " " " " " "			1.6		**		н	**	II .	
tert-Butylbenzene ND 1.6				n	"	н	н	11	ij	
Carbon tetrachloride	•		1.6	н	11	19	н	н	n	
Chlorochane ND 1.6 " " " " " " " " " " " " " " " " " " "	•			**	п	**	н	11	"	
Chloroethane				II		•	H	**	**	
Chloroform ND 1.6 " " " " " " " " " " " " " " " " " " "				11	н	11		**	11	
Chloromethane	=			н		11	u	19	11	
Chilorotoluene					19	n	"	"	11	
4-Chlorotoluene ND 1.6 " " " " " " " " " " " " " " " " " " "				"	10	н	.3"	"	II	
Dibromochloromethane (EDB) ND 1.6 " " " " " " " " " " " " " " " " " " "				**		10	.11	ш	ır	
1,2-Dibromoethane (EDB) ND 1.6	• = -				11	11	,.II	II	II.	
1,2-Dibromo-stane ND				**	U		• н	. **	"	
1,2-Dichlorobenzene				п	н		n	, n	••	
1,2-Dichlorobenzene ND 1.6 " <td></td> <td></td> <td></td> <td>**</td> <td>**</td> <td>п</td> <td>ш</td> <td>lf.</td> <td>#</td> <td></td>				**	**	п	ш	lf.	#	
1,3-Dichlorobenzene 1,3-Dichlorobenzene ND 1.6 ND ND 1.6 ND ND 1.6 ND				**		II	10	**	n	
1,4-Dichlorobenzene ND 1.6	•			D	10	11	. 11	,,	**	
Dichlorodifluoromethane ND 1.6 " " " " " " " " " " " " " " " " " " "	•		·=·	**			11	#	19	
1.1-Dichloroethane	*			"	31	#	19	п	п	
1,1-Dichloroethane ND 1.6 """"""""""""""""""""""""""""""""""""					н	**	п	IF	n	
1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropane 1,1-Dichlor	*					**	n	n	10	
1,1-Dichloroethene					,,	11		н		
cis-1,2-Dichloroethene ND 1.6 "<	•						77	17	10	
trans-1,2-Dichloropethene ND 1.6 " " " " " " " " " " " " " " " " " " "							n	н	,,	
1,2-Dichloropropane ND 1.6 " " " " " " " " " " " " " " " " " " "								41	u	
1,3-Dichloropropane ND 1.6 " " " " " " " " " " " " " " " " " " "							11	11	II.	
2,2-Dichloropropane ND 1.6 " <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> <td>u</td> <td></td>								"	u	
1,1-Dichloropropene ND 1.6 " <td>2,2-Dichloropropane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,,</td> <td></td>	2,2-Dichloropropane								,,	
Ethylbenzene ND 1.6 " " " " " " " " " " " " " " " " " " "										
Hexachlorobutadiene										
Isopropylbenzene									-	
p-Isopropyltoluene ND 1.6 " " " " " " " " " " " " " " " " " " "										
Methylene chloride ND 6.3 " Naphthalene ND 1.6 " "" "" "" "" "" "" "" "" "" "" "" ""	p-Isopropyltoluene									
Naphthalene ND 1.6 " " " "	Methylene chloride	NI								
n-Propylbenzene ND 1.6 " " " " " " "						•				
	n-Propylbenzene	NI	1.6	**		,,	ıı	11	"	•





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-8 (MMF0628-14) Soil Sample	ed: 06/19/03 08:45	Received: 06/1	9/03 18:	45					· · · · · · · · · · · · · · · · · · ·
Styrene	ND	1.6	ug/kg	3.14	3F30001	06/30/03	07/01/03	EPA 8260B	÷
1,1,1,2-Tetrachloroethane	ND	1.6	IF	11	••	11	D	,,	
1,1,2,2-Tetrachloroethane	ND	1.6	**	II	ri	ti.	"	10	
Tetrachloroethene	ND	1.6	••	H	н		11	я	
Toluene	ND	1.6	**	P	**	*	"	"	
1,2,3-Trichlorobenzene	ND	1.6	н	**	11	II.	и	**	
1,2,4-Trichlorobenzene	ND	1.6	"	Ħ	II	**	н	II .	
1,1,1-Trichloroethane	ND	1.6	*11		II	**	н	u	
1,1,2-Trichloroethane	ND	1.6	н	"	n	11	**	н	
Trichloroethene	ND	1.6	п	н	"	н	"	n .	
Trichlorofluoromethane	ND	1.6	**	II	59	H	11	n	
1,2,3-Trichloropropane	ND	1.6	H	II.	77		**	11	
1,2,4-Trimethylbenzene	ND	1.6	"	11	"	**	. "	**	
1,3,5-Trimethylbenzene	ND	1.6	Ħ	17	**		"	"	
Vinyl chloride	ND	1.6	**	**	Ü	ti	Ħ	11	
Xylenes (total)	ND	1.6	**	"	11	**	n	ıı	
Surrogate: Dibromofluoromethane	<u> </u>	104 %	61)-140	"	,	и	. "	
Surrogate: 1,2-Dichloroethane-d4		114 %	•	0-140	"	. "	и	н	
Surrogate: Toluene-d8		105 %		0-140	rr	n	n	TT .	
	_	106 %		0-140	#	. #	"	, "	
Surrogate: 4-Bromofluorobenzene	ND	130	#	3.14			*	17	
Ethanol	ND	63	**		11	J +	, #	n	
tert-Butyl alcohol	ND	1.6	"	**	11	ņ	11	**	
Methyl tert-butyl ether	ND	1.6	41		н	11	n	11	
Di-isopropyl ether	ND ND	1.6	11	**	н	11	н	U	•
Ethyl tert-butyl ether	ND ND	1.6		#	**	п	*	u	
tert-Amyl methyl ether	ND ND		,,	IF	**	н .		**	
1,2-Dichloroethane	ND ND		,,	I t	.,		*	10	
1,2-Dibromoethane (EDB) Surrogate: 1,2-Dichloroethane-d4		114 %	6	0-140	,,	"	,	#	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-11 (MMF0628-15) Soil	Sampled: 06/19/03 08:53	Received: 0	5/19/03 1	8:45					
Benzene	ND	1,5	ug/kg	3.05	3F30001	06/30/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5			н	"	#	11	
Bromochloromethane	ND	1.5	19	"		n	**	11	
Bromodichloromethane	ND	1.5	и.,	н	11	n	11	п	
Bromoform	ND	1.5	11	"	ıı.	11	II	H	
Bromomethane	ND	6.1	п	n	"	II .	**	"	
n-Butylbenzene	ND	1.5	н	H		Ħ	•	"	
sec-Butylbenzene	ND	1.5	"	н	77		B		
tert-Butylbenzene	ND	1.5	11	**		v	"	11	
Carbon tetrachloride	ND	1.5		11	н	**	**	11	
Chlorobenzene	ND	1.5	н		п		"	H	
Chloroethane	ND	6.1	н	n	le .	n	н	**	
Chloroform	ND	1.5	н		•	ti	"	11	
= ' '	ND	15	*	**	**		17	N	
Chloromethane	ND	1.5	**	**	н	11	"	"	
2-Chlorotoluene	ND	1.5	**	**	11	n	"	n	
4-Chlorotoluene	ND	1.5	11	"	IJ	**	п	ш	
Dibromochloromethane	ND	1.5	D	11	n	n	Ħ	IP.	
1,2-Dibromoethane (EDB)	ND	1.5	н	11	n	, н	Ħ	n	
Dibromomethane		6.1		н	**	ŧi	11	н	
1,2-Dibromo-3-chloropropan	e ND ND	1.5	11		"	w	"	н	
1,2-Dichlorobenzene	ND	1.5	н	**		π	•	"	
1,3-Dichlorobenzene	ND ND	1.5	**	11	11		н	a	
1,4-Dichlorobenzene	ND ND	1.5		11	n n	19	n	11	
Dichlorodifluoromethane		1.5	,,		**	n	н	n	
1,1-Dichloroethane	ND ND	1.5		11	**	Ħ	*	**	
1,2-Dichloroethane	= ''		**	,,	**	•	#		
1,1-Dichloroethene	ND	1.5	,,	н	,,	77	17	**	
cis-1,2-Dichloroethene	ND	1.5	н		11	**	19	"	
trans-1,2-Dichloroethene	ND	1.5	"		11	11	11		
1,2-Dichloropropane	ND	1.5	.,	11	 H	ji .	II	Ħ	
1,3-Dichloropropane	ND	1.5	,,				11	п	
2,2-Dichloropropane	ND	1.5		., It	 H		11	n	
1,1-Dichloropropene	ND	1.5		17	" u	**	,,	**	
Ethylbenzene	ND	1.5			"	"	"	10	
Hexachlorobutadiene	ND	1.5	11	"		"	"	 **	
Isopropylbenzene	ND	1.5	11	11	II 	11	n H	"	
p-Isopropyltoluene	ND	1.5	D	1Î	"	II H	#	11	
Methylene chloride	ND	6.1	"	H			**	п н	
Naphthalene	ND	1.5	I)	11	n	"	"	 It	
n-Propylbenzene	ND	1.5	ŧ	10	11		•		





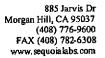
Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-11 (MMF0628-15) Soil Sai	mpled: 06/19/03 08:53	Received: 00	5/19/03 1	8:45				<u> </u>	
Styrene	ND	1.5	ug/kg	3.05	3F30001	06/30/03	07/01/03	EPA 8260B	
1,1,2-Tetrachloroethane	ND	1.5	н	H	ii	"	"	H	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	н	π.	11	"	
Tetrachloroethene	ND	1.5	н	**	H	"	н	п	
Toluene	ND	1.5	ır	11	**	Ħ	**	T#	
1.2,3-Trichlorobenzene	ND	1.5	II.	**	**	11	11	•	
1,2,4-Trichlorobenzene	ND	1.5	н	11	,,	н	11	11	
1,1,1-Trichloroethane	ND	1.5	**	II	**	"	14	n	
1,1,2-Trichloroethane	ND	1.5	H	11	n	**	"	н	
Trichloroethene	ND	1.5	Ħ	"	II	#	**	"	•
Trichlorofluoromethane	ND	1.5	п	**	"		II		
1,2,3-Trichloropropane	ND	1,5	II .	#		11	10	**	
1,2,4-Trimethylbenzene	ND	1.5	п		**	н	"	11	
1,3,5-Trimethylbenzene	ND	1.5	н	а		II	17	U	
Vinyl chloride	ND	1.5	**	II .	"	H	n	II	
Xylenes (total)	ND	1.5	**	11	н	· "	н		
Surrogate: Dibromofluoromethan	ne	103 %	60	-140	н	Ħ	*	н	
Surrogate: 1,2-Dichloroethane-d		116 %		-140	ы	"	Ħ	n	
Surrogate: Toluene-d8	•••	108 %	60	-140	**	"	"	"	
Surrogate: 4-Bromofluorobenzen	14	109 %		-140	rt	"	u	"	
Ethanol	ND ND	120	11	3.05	н	il		n	
tert-Butyl alcohol	ND	61		11	'n	**	**	u	
Methyl tert-butyl ether	ND	1.5	"	ц		"	10	11	
	ND	1.5	н	H	п	**		11	
Di-isopropyl ether	ND	1.5			"	77	"	H	
Ethyl tert-butyl ether	ND	1.5	11	**			n n	Ħ	
tert-Amyl methyl ether	ND	1.5	ir.	"		11	**	**	٠
1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND	1.5		"	ņ	If		**	
-		116%	61	-140	"	"	"	"	
Surrogate: 1,2-Dichloroethane-a	14	110 70	•						**





Project: ARCO #601, San Leandro, CA

Project Number: N/P

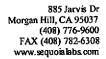
Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-13 (MMF0628-16) Soil Sampled:	06/19/03 09:10	Received: 00	6/19/03 1	3:45					
Ethanol	ND	100	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	50	"	**	н	#	"	,	
Methyl tert-butyl ether	ND	0.25		н	11	**	19	"	
Di-isopropyl ether	ND	0.25		"	II .	и		"	
Ethyl tert-butyl ether	ND	0.25		*	H	17	"	n	
tert-Amyl methyl ether	ND	0.25	4	н	н	**	"	"	
1,2-Dichloroethane	ND	0.25	11	я	"		" "	 D	
1,2-Dibromoethane (EDB)	ND	0.25		*		n			
Surrogate: 1,2-Dichloroethane-d4		101 %	60-	140	"	"	"	"	
Benzene	ND	0.50	**	10	"	**	11	10	
Bromobenzene	NĎ	0.50	"	h	11	"	11	**	
Bromochloromethane	ND	0.50	**	II	н		U	**	
Bromodichloromethane	ND	0.50	Ħ	н	H	19	н	ч	
Bromoform	ND	0.50		*	n	н	17	11	
Bromomethane	ND	2.0	11	"	u	31	**	"	
n-Butylbenzene	4.5	0.50	н	e	17	19	н	**	
sec-Butylbenzene	0.88	0.50	ц	**	TF	Н	H	P	
tert-Butylbenzene	ND	0.50	"	4		н	41	"	
Carbon tetrachloride	ND	0.50	"	и	"	**	IP		
Chlorobenzene	ND	0.50	**	II	и	н .			
Chloroethane	ND	2.0	*	H	п	11	11	"	
Chloroform	ND	0.50	"	н	H	17	"		
Chloromethane	ND	2.0	"		н	"	"	"	
2-Chlorotoluene	ND	0.50	н		"	11		" It	
4-Chlorotoluene	ND	0.50	11	19	n	n	н); H	
Dibromochloromethane	ND	0.50	H	"	"		11	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	**	11	N,		"	
Dibromomethane	ND	0.50		п	11		IP		
1,2-Dibromo-3-chloropropane	ND	1.0	"	O.	II	41	19	"	
1,2-Dichlorobenzene	ND	0.50	"		**		,	"	
1,3-Dichlorobenzene	ND	0.50	#	11	*	"		"	
1,4-Dichlorobenzene	ND	0.50	II	**	11*	n	"	 D	
Dichlorodifluoromethane	ND	0.50	11	11	**	n 	" "	1r	
1,1-Dichloroethane	ND	0.50	II	**		II 	" "		
1,2-Dichloroethane	ND	0.50	"	**	**	н	# It	;; **	
1,1-Dichloroethene	ND	0.50	"	11	11	"		,,	
cis-1,2-Dichloroethene	ND	0.50	10	II .	н	**	**	**	
trans-1,2-Dichloroethene	ND	0.50	н	H	IF	1*		**	
1,2-Dichloropropane	ND	0.50	W .	**	IT	**		**	
1,3-Dichloropropane	ND	0.50	"	11	н	**	11	41	

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-13 (MMF0628-16) Soil	Sampled: 06/19/03 09:10	Received: 06	5/19/03 1	8:45					<u>.</u>
2,2-Dichloropropane	ND	0.50	mg/kg	10	3G01002	07/01/03	07/01/03	EPA 8260B	
1.1-Dichloropropene	ND	0.50	(r	ø	**	*	**	rı	
Ethylbenzene	5.6	0.50	**	"		**	n	••	
Hexachlorobutadiene	ND	0.50	"	11	H	11	*	ч	
Isopropylbenzene	1.0	0.50	н	н	11	ıl	Н	17	
p-Isopropyltoluene	0.52	0.50	n	n	11	н	II	"	
Methylene chloride	ND	0.50	**	Ħ	11	u	II		
Naphthalene	5.7	2.0	"		Ħ	19	n	н	
n-Propylbenzene	5.5	0.50		n	*	"	"	н	
Styrene	ND	0.50	**	н	**	11	*	IF	
1,1,1,2-Tetrachloroethane	ND	0.50	11	**	17	11	H	•	
1,1,2,2-Tetrachloroethane	ND	0.50	n	11	"	II	**	Ħ	
Tetrachloroethene	ND	0.50	"	n	"	**	"	**	
Toluene	ND	0.50	11	H	II	"	"		
1,2,3-Trichlorobenzene	ND	0.50	п		rr	14	tt	**	
1,2,4-Trichlorobenzene	ND	0.50	**	IT		11	**	Ħ	
1,1,1-Trichloroethane	ND	0.50		n	**	ч	n	n	
1,1,2-Trichloroethane	ND	0.50	**		11	н		tt	
Trichloroethene	ND	0.50	"	п	n	. 0	u	II .	
Trichlorofluoromethane	ND	1.0	4	н	n	17	Н	**	
1,2,3-Trichloropropane	ND	0.50	п	11	IJ	**	(I	•	
1,2,4-Trimethylbenzene	36	0.50	ш		n	1)	H	"	
1,3,5-Trimethylbenzene	12	0.50	10	11	"	H	u	11	
Vinyl chloride	ND	0.50		**	**	"	π	II	
Xylenes (total)	30	0.50	**	11	**	п	11		
		99.2 %	60	-140	,,	n.	n	rr	
Surrogate: Dibromofluorome	unane no M	101 %		-140	,,	n	u	rr	
Surrogate: 1,2-Dichloroethan	16-0 4	101 %		-140		•	n	rt	
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobel	nzene	93.0 %		-140	tt	"	n	"	



885 Jarvis Dr Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-14 (MMF0628-17) Soil	Sampled: 06/19/03 09:15	Received: 00	5/19/03 1	8:45		<u></u>			
Benzene	ND	1.5	ug/kg	3.05	3G01033	07/01/03	07/01/03	EPA 8260B	
Bromobenzene	ND	1.5	н	"	,	**	n		
Bromochloromethane	ND	1.5	п	**		tt .	Ц	li 	
Bromodichloromethane	ND	1.5	**	11	11	**	H		
Bromoform	NĎ	1.5	**	Ħ	п	H	**		
Bromomethane	ND	6.1	11	**	H	u	"	*	•
n-Butylbenzene	ND	1.5	**	19	11	11	n	n	
sec-Butylbenzene	ND	1.5	••	н	17	н	"	11	
tert-Butylbenzene	ND	1.5	**	11	**	11	41	"	
Carbon tetrachloride	ND	1.5	Ш	n	н	**	11	"	
Chlorobenzene	ND	1.5	II	**	"	11	II.	tt	
Chloroethane	ND	6.1		**	**	TI	11	,,	
Chloroform	ND	1.5	"	TI	IJ	"	•	"	
Chloromethane	ND	15	#	**	IF	"	**	**	
2-Chlorotoluene	ND	1.5		11	11	11	. "	n	
4-Chlorotoluene	ND	1.5	**	н	**	II		**	
Dibromochloromethane	ND	1.5	**	II	17	н	1 1	"	
1,2-Dibromoethane (EDB)	ND	1.5	п	H	H	**	ıı .	II	
Dibromomethane	ND	1.5	Ħ	"	n	**	u	ıt	
1,2-Dibromo-3-chloropropan		6.1		n	#	11	. •	n	
1,2-Dichlorobenzene	ND	1.5	**	tt	п	*	11	**	
1,3-Dichlorobenzene	ND	1.5	**		rt	n	**	*	
1,4-Dichlorobenzene	ND	1.5		**	"	: 11	n	n	
Dichlorodifluoromethane	ND	1.5	"	II .	H	н	11	11	
1,1-Dichloroethane	ND	1.5	п	H	19		11	19	
1,2-Dichloroethane	ND	1.5	Ħ	"	H	**	ıı	н	
1.1-Dichloroethene	ND	1.5			11	**	"	H	
cis-1,2-Dichloroethene	ND ND	1.5		79	11		н	"	
trans-1,2-Dichloroethene	ND	1.5	11	7	H	•	19	u	
-	ND	1.5		и	н	ij	n	19	
1,2-Dichloropropane	ND	1.5		н	**	н	"	"	
1,3-Dichloropropane	ND	1.5	Į.	и		ti	11	"	
2,2-Dichloropropane	ND ND	1.5	p		11	ıŧ	ıı	н	
1,1-Dichloropropene	ND	1.5	,,		"	49	н	n	
Ethylbenzene	ND	1.5		н	11		**	n	
Hexachlorobutadiene	ND ND	1.5	.,	n	n		**	11	
Isopropylbenzene		1.5	,,		n	и	*		
p-Isopropyltoluene	ND		11	н	11	n	н	44	
Methylene chloride	ND	6.1	n			"	**	b	
Naphthalene	ND	1.5	"	" II	"	u-	41		
п-Propylbenzene	ND	1.5	11	. "	11	•			

Sequoia Analytical - Morgan Hill



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URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-14 (MMF0628-17) Soil Sampl	ed: 06/19/03 09:15	Received: 06	/1 <u>9/03</u>	18:45				70.00	
Styrene	ND	1.5	ug/kg	3.05	3G01033	07/01/03	07/01/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	"	II	u	II #			
1,1,2,2-Tetrachloroethane	ND	1.5	11	**	H		"		
Tetrachloroethene	ND	1.5	**	11	**	14	"	"	
Toluene	ND	1.5	11		**	"	11 #		
1,2,3-Trichlorobenzene	ND	1.5	11	II .	11	II			
1,2,4-Trichlorobenzene	ND	1.5	"	н	it	H	**		
1,1,1-Trichloroethane	ND	1.5	**	**	"		ri ri		
1,1,2-Trichloroethane	ND	1.5	**	H	T	"	1)	"	
Trichloroethene	ND	1.5	п	11	**	ņ	H	ıı	
Trichlorofluoromethane	ND	1.5	•	н	II	u	n	H	
1,2,3-Trichloropropane	ND	1.5	11	II	D	н	"	"	
1,2,4-Trimethylbenzene	ND	1.5		ν,	R	"	•	19	
1,3,5-Trimethylbenzene	ND	1.5	**	**	н	•	н	"	
Vinyl chloride	ND	1.5	II.	#	11	19	II.	11	
Xylenes (total)	ND	1.5	н	II .	It	"		#	
		103 %		0-140	"	17	"	**	
Surrogate: Dibromofluoromethane		105 %		60-140	"	"	"	*	
Surrogate: 1,2-Dichloroethane-d4		98.6 %		50-140	*	#		•	
Surrogate: Toluene-d8		104 %		50-140	μ	N	H	"	
Surrogate: 4-Bromofluorobenzene	ND	104 70	,	3.05	11	II.	"	n	
Ethanol		61	"	"			11	н	
tert-Butyl alcohol	ND	1.5		17	77	19	"	**	
Methyl tert-butyl ether	ND	1.5	11		n		11		
Di-isopropyl ether	ND	1.5	11	11	11	11	н	н	
Ethyl tert-butyl ether	ND		**	II		н	**	н	
tert-Amyl methyl ether	ND	1.5		11	**		*		
1,2-Dichloroethane	ND	1.5	"	11	н	ы	п	n	
1,2-Dibromoethane (EDB) Surrogate: 1,2-Dichloroethane-d4	ND	106 %		60-140	θ.	*	#	"	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

		Reporting				Brangrad	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Allalyzed	Premod	
PL-12 (MMF0628-18) Soil	Sampled: 06/19/03 09:30	Received: 00	6/19/03 1	8:45			. <u> </u>		
Веплепе	ND	1.5	ug/kg	2.98	3F30001	06/30/03	06/30/03	EPA 8260B	
Bromobenzene	ND	1.5	77	11		*	**	**	
Bromochloromethane	ND	1.5	"	**	11	H*	10	" It	
Bromodichloromethane	ND	1.5	11		,,	11	H	!r	
Bromoform	ND	1.5	II .	**	11	п	11		
Bromomethane	ND	6.0	H	11	II .	н	II	•	•
n-Butylbenzene	ND	1.5	н	μ	I#	**	u	n	
sec-Butylbenzene	NĎ	1.5	**	II+		••	11	n	
tert-Butylbenzene	ND	1.5	н	"	**	17	**	u	
Carbon tetrachloride	NĎ	1.5	n .	11		11	н	11	
Chlorobenzene	ND	1.5	п		11	н	**	н	
Chloroethane	ND	6.0	D	11	II .	II.	11	II.	
Chloroform	ND	1.5	"	11	u ·	**	ıı	"	
Chloromethane	ND	15	17	IF	18	н	**	*	
2-Chlorotoluene	ND	1.5	**	**	17	H	ĮI.	H	
4-Chlorotoluene	ND	1.5	**	**		"	10	u	
Dibromochloromethane	ND	1.5	п	*	n	11	"	***	
1,2-Dibromoethane (EDB)	ND	1.5	и	**	11	ш	a	II	
Dibromomethane	ND	1.5	"	10	n	Ħ	n	H	
1,2-Dibromo-3-chloropropane		6.0	**	11	**		Ħ	**	
1,2-Dichlorobenzene	ND	1.5	78	n	10	45	**	"	
_	ND	1.5	"		п	n	**	19	
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND	1.5	11	*	*1	**	11	11	
Dichlorodifluoromethane	ND	1.5	п	**	jt	U	**	11	
	ND	1.5	"	11	п	H	n	II .	
1,1-Dichloroethane	ND	1.5	**	п	n	н	19	Ħ	
1,2-Dichloroethane	ND	1.5	34		11	**	H	n	
1,1-Dichloroethene	ND ND	1.5			**		**	#	
cis-1,2-Dichloroethene	ND	1.5	**	n	"	"	n	H	
trans-1,2-Dichloroethene	ND ND	1.5	114	.,	11	п		to to	
1,2-Dichloropropane	ND ND	1.5	**	**		н	ii	41	
1,3-Dichloropropane		1.5		n		"	n	н	
2,2-Dichloropropane	ND ND	1.5	n	H	Tr.	.14	11	n.	
1,1-Dichloropropene	ND ND	1.5	**	n	u	n	•	n	
Ethylbenzene	ND	1.5	**	. "	11		11	**	
Hexachlorobutadiene	ND				11		н	**	
Isopropylbenzene	ND	1.5	" "	"		Ħ	11		
p-Isopropyltoluene	ND	1.5	"		,,	*	1)	n	
Methylene chloride	ND	6.0	"	" Pr		,,	II.	II	
Naphthalene	ND	1.5		,		н		II	
n-Propylbenzene	ND	1.5	21	"			**		





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

		14014 1200				· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-12 (MMF0628-18) Soil S	Sampled: 06/19/03 09:30	Received: 00	5/19/03	18:45					
Styrene	ND	1.5	ug/kg	2.98	3F30001	06/30/03	06/30/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.5	11	**	н	11	•	"	
1,1,2,2-Tetrachloroethane	ND	1.5	п	**			*		
Tetrachloroethene	ND	1.5	n	**	н	11	"	n	
Toluene	ND	1.5	"	u	"	11	"	ıı	
1,2,3-Trichlorobenzene	ND	1.5	"	11	ш	II	11	,,	
1,2,4-Trichlorobenzene	ND	1.5	**	li	II	n	D	n	
1,1,1-Trichloroethane	ND	1.5	"	н	0	"	"	14	
1,1,2-Trichloroethane	ND	1.5	91	"	"	17	**	•	
Trichloroethene	ND	1.5		**	**	**	17	u	
Trichlorofluoromethane	ND	1.5	**	"	n	11		11	
1,2,3-Trichloropropane	ND	1.5	**	"	"	II.	"	II .	
1,2,4-Trimethylbenzene	ND	1.5	**	n	II		Н	**	
1,3,5-Trimethylbenzene	ИD	1.5	11	Ш	и	ri .	H		
Vinyl chloride	ND	1.5	"	**		"	n	**	
Xylenes (total)	ND	1.5	11	н	11	11	<u>"</u>	H	
Surrogate: Dibromofluorometh	ane	104 %	6	0-140	ff	· ·	n	*	
Surrogate: 1,2-Dichloroethane	ad4	110 %		0-140	*	"	"	"	
Surrogate: Toluene-d8	. L3 !	108 %	6	0-140	*	"	"	,,	
Surrogate: 4-Bromofluorobenz	ono	104 %	6	0-140	# "	"	"	н	
Ethanol	ND ND	120	77	2.98	II	n	lt .	u	
tert-Butyl alcohol	ND	60	••	"	н	**	"	117	
Methyl tert-butyl ether	ND	1.5	Ħ	"	11	**	•	**	
Di-isopropyl ether	ND	1.5		**	**	п	*	**	
Ethyl tert-butyl ether	ND	1.5	,,	**	79	и	"	#	
tert-Amyl methyl ether	ND	1.5	**	**	**	n	"	н	
1,2-Dichloroethane	ND	1.5	**	41	Ħ	rr	II	**	
1,2-Dibromoethane (EDB)	ND	1.5	н	IF	н	**	u		
Surrogate: 1,2-Dichloroethane		110 %	6	0-140	"	"	,,	"	
Surrogate: 1,2-Dichioroemane	>-WT	11070	·						





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

,		equota Ana	- I ticar	1.1016					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-8 (MMF0628-19) Soil	Sampled: 06/19/03 09:45	Received: 06/	19/03 18	:45					
Ethanol	ND	10	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
tert-Butyl alcohol	ND	5.0	n	ır	н	11	"	"	
Methyl tert-butyl ether	ND	0.025	ji .	H	н	**	it .		•
Di-isopropyl ether	ND	0.025	u	•	II .		**	17	
Ethyl tert-butyl ether	ND	0.025	u ·	17	н	**	**	•	
tert-Amyl methyl ether	ND	0.025		11	•	**	"		
1,2-Dichloroethane	ND	0.025	**	н	**	11	*1	u	•
1,2-Dibromoethane (EDB)	ND	0.025	10	11	n	11	11	<u>.</u>	
Surrogate: 1,2-Dichloroethe	ane-dd	90.0 %	60-	-140	"	,,	"	**	
Benzene	ND	0.050	,,	II.	"	ĮI	Ħ	п	
Bromobenzene	ND	0.050	n	*	μ	.**	*	H	
Bromochloromethane	ND	0.050	11	н	IF	**	n	**	
Bromodichloromethane	ND ND	0.050	п	н	n		n	"	
Bromoform	ND	0.050	,,	"	"		n	**	
Bromomethane	ND	0.20	,,		н	17	**	17	
	1.1	0.050	ш	**	47	н	**	H	
n-Butylbenzene	0.20	0.050	.,	11	77		ti .		
sec-Butylbenzene	ND	0.050		11		"	11	4	
tert-Butylbenzene	ND	0.050		ıı .		11	11	n	
Carbon tetrachloride	ND	0.050	**	ıı.	н	н	11	н	
Chlorobenzene	ND ND	0.030	,,	n	н	H	II	n	,
Chloroethane	ND ND	0.050			11	,,	*	H	
Chloroform	ND ND	0.030	"	#	ь			17	
Chloromethane	UN D	0.20		**	n	17	,,	11	
2-Chlorotoluene			"	п			11	10	
4-Chlorotoluene	ND	0.050	**	4	41	**	11	11	
Dibromochloromethane	ND	0.050	,,	11	в	**		₩	
1,2-Dibromoethane (EDB)	ND	0.050			**	**	11	n	
Dibromomethane	ND	0.050	"	"	*1	u	п	ш	
1,2-Dibromo-3-chloropropa		0.10	"		п	*	ıt	11	
1,2-Dichlorobenzene	ND	0.050			IF	11	H	11	
1,3-Dichlorobenzene	ND	0.050		 n			11	п	
1,4-Dichlorobenzene	ND	0.050					,,	n	
Dichlorodifluoromethane	ND	0.050	"	# H	,	" "			
1,1-Dichloroethane	ND	0.050			"	, ,			
1,2-Dichloroethane	ND	0.050	14	11	17		и	,	
1,1-Dichloroethene	ND	0.050			"	"	и	** **	
cis-1,2-Dichloroethene	ND	0.050	"	. "		11	" "	**	
trans-1,2-Dichloroethene	ND	0.050	11	H)1 		"	**	
1,2-Dichloropropane	ND	0.050	n	"	11	ir 			
1,3-Dichloropropane	ND	0.050	"	n	11	"	II	"	

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PL-8 (MMF0628-19) Soil	Sampled: 06/19/03 09:45	Received: 06/	19/03 18:	:45					
2,2-Dichloropropane	ND	0.050	mg/kg	1	3G01002	07/01/03	07/01/03	EPA 8260B	
1.1-Dichloropropene	ND	0.050	ıı	п	**	17	H	H	
Ethylbenzene	0.27	0.050	н	н	31	11	11	п	
Hexachlorobutadiene	ND	0.050	п	n	Ħ	n		10	
Isopropylbenzene	0,097	0.050	II.	"	н	11	W	10	
p-lsopropyltoluene	ND	0.050		**	п	н	11	**	
Methylene chloride	ND	0.050		11	n	II .	IF	**	
Naphthalene	1.5	0.20	#	Ħ	"	n	Ħ	**	
n-Propylbenzene	0.54	0.050	17	**	**	H	**	11	
Styrene	ND	0.050		**	1)	u		п	
1,1,1,2-Tetrachloroethane	ND	0.050	**	n	11	н	11	п	
1,1,2,2-Tetrachloroethane	ND	0.050	D	11	н	11	11	11	
Tetrachloroethene	ND	0.050		п	**	**		**	
Toluene	ND	0.050	н	н	ш		"	**	
1.2.3-Trichlorobenzene	ND	0.050	*		ш	U	n	**	
1,2,4-Trichlorobenzene	ND	0.050	**	**	н	н	Ħ	77	
1,1,1-Trichloroethane	ND	0.050	14	n	**	н	U	**	
1,1,2-Trichloroethane	ND	0.050	*	n	**	n	н	**	•
Trichloroethene	ND	0.050	н		19	**	U	11	
Trichlorofluoromethane	ND	0.10	11		10	**	H	10	
1,2,3-Trichloropropane	ND	0.050	11	II .		**	"	и	
1,2,4-Trimethylbenzene	0.34	0.050	н	н	н	41	**	H	
1,3,5-Trimethylbenzene	ND	0.050	п	н	11		n	n	
Vinyl chloride	ND	0.050	**	"	11	11	u	n	
<u>-</u>	0.11	0.050		"	H	11	11	**	
Xylenes (total)		87.8 %		-140	н —	,,	н	rt	
Surrogate: Dibromofluorome		87.8 % 90.0 %		-140 -140	rr	17) <i>1</i>	"	
Surrogate: 1,2-Dichloroethan	1e-a4			-140 -140	"	"	,,	"	•
Surrogate: Toluene-d8		114%			,,	Ħ	p	,,	
Surrogate: 4-Bromofluorober	nzene	94.8 %	00-	-140					



885 Jarvis Dr Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-7 (MMF0628-20) Soil Sa	mpled: 06/19/03 09:45	Received: 06/1	9/03 18:4	15					
Benzene	ND	1.6	ug/kg	3.25	3G03012	07/03/03	07/03/03	EPA 8260B	
Bromobenzene	ND	1.6	n	н	*1	n	н		
Bromochloromethane	ND	1.6	н	n	11	н	19	II	
Bromodichloromethane	ND	1.6	н	11	п	II	n	п	
Bromoform	ND	1.6	17	11	11	II	**	li .	
Bromomethane	ND	6.5	rr .	II .	11	n	"	H	
n-Butylbenzene	ND	1.6	**	"	**	"	*1	n	
sec-Butylbenzene	ND	1.6	**	"	••	"	п	"	
tert-Butylbenzene	ND	1.6	н	19	"	17	11	**	
Carbon tetrachloride	ND	1.6	II .	n	ņ	**	IF.	*	
Chlorobenzene	ND	1.6	"	*	"		H	"	
Chloroethane	ND	6.5	rr .	**	+1	11		11	
Chloroform	ND	1.6	••	n	μ	"	"	**	
Chloromethane	ND	16	11	11	Ш	11	**	II .	
2-Chlorotoluene	ND	1.6	**	11	D	п	Ħ	п	
4-Chlorotoluene	ND	1.6	н	11	"	**	**	n	
Dibromochloromethane	ND	1.6	"	**		a	*1	"	
1,2-Dibromoethane (EDB)	ND	1.6	11		**	#	H	u	
Dibromomethane	ND	1.6	19	39	•	19	II	"	
1,2-Dibromo-3-chloropropane		6.5	ıJ	11	**	n	H	**	
1,2-Dichlorobenzene	ND	1.6	H		u	"	n	н	
1,3-Dichlorobenzene	ND		"	**	**	11		"	
1.4-Dichlorobenzene	ND		"	11	н	н	Ħ	"	
Dichlorodifluoromethane	ND	1.6	*	n	10	II	•	11	
1.1-Dichloroethane	ND	1.6	n	ш	Ħ	H	n	II	
1,2-Dichloroethane	ND	1.6		11	н	Ħ	**	н	
1.1-Dichloroethene	ND	1.6	*1	*	**	"	"	н	
cis-1,2-Dichloroethene	ND	1.6	н	**	**	11	11	,	
trans-1,2-Dichloroethene	ND	1.6	ц	Ħ	11	*	If	н	
1,2-Dichloropropane	ND	1.6	n	n			Ħ	17	
1,3-Dichloropropane	ND	1,6	***	"	•	11	**	77	
2,2-Dichloropropane	ND	1.6		11	11	и	*	"	
1,1-Dichloropropene	ND	1.6	**	11	11	II	n	н	
Ethylbenzene	ND	1.6	**	II .	Ħ	п	n	**	
Hexachlorobutadiene	ND	1.6	r	II .	D	11	n	n	
Isopropylbenzene	ND	1.6		H		н	"	II	-
p-Isopropyltoluene	ND			n	n	"	н	II	
Methylene chloride	ND	6.5	**	•	**	11	II .	H	
Naphthalene	ND		n	**	57	**	"	tt	
n-Propylbenzene	ND	1.6	n	**	H	Ħ	H	н	

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-7 (MMF0628-20) Soil S	ampled: 06/19/03 09:45	Received: 06/1	9/03 18:4	15					
Styrene	ND	1.6	ug/kg	3.25	3G03012	07/03/03	07/03/03	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.6	11	**	#	"	II		
1,1,2,2-Tetrachloroethane	ND	1.6	U	"	ų	"	"	**	
Tetrachloroethene	ND	1.6	II .	17	91	**	"	*1	٠
Toluene	ND	1.6	**		"	**	"	11	
1,2,3-Trichlorobenzene	ND	1.6		**	**	11	7	"	
1,2,4-Trichlorobenzene	ND	1.6	17	II	11	11	U		
1,1,1-Trichloroethane	ND	1.6	11	II	11	ш	"	"	
1,1,2-Trichloroethane	ND	1.6	"	11	u	*	"	•	
Trichloroethene	ИD	1.6	11	11	It	"	II	17	
Trichlorofluoromethane	ND	1.6	u	"	H	11	11	11	
1,2,3-Trichloropropane	ND	1,6	п	17	"	н		11	
1.2,4-Trimethylbenzene	ND	1.6	H	P	17	н	**	**	
1,3,5-Trimethylbenzene	ND	1.6	P	11		19	W	п	
Vinyl chloride	ND	1.6	11	п	*1	н	"	II	
Xylenes (total)	ND	1.6	**	II.	п	D	***		
Surrogate: Dibromofluorom	ethane	92.0 %	60	-140	н	n	,,	n	
Surrogate: 1,2-Dichloroetha		93.2 %	60	-140	н	,,	**	, #	
Surrogate: Toluene-d8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	90.2 %	60	-140	*	ıt	"	"	
Surrogate: 4-Bromofluorobe	entana	93.0 %	60	-140	rt	"	n	*	
Ethanol	nzene ND		"	3.25	n	*	**	и	
tert-Butyl alcohol	ND			11	"	11	*	n	
Methyl tert-butyl ether	ND	- -	u	**	11	п	"	п	
Di-isopropyl ether	ND		17	n	11	IP	"	ii .	•
Ethyl tert-butyl ether	ND			IF	11		11	M	
tert-Amyl methyl ether	ND		n		н	tr .	11	**	
1,2-Dichloroethane	ND		11 .			**	"	"	
1,2-Dibromoethane (EDB)	ND		n		**	n	,,	11	
Surrogate: 1,2-Dichloroetho		93.2 %	60	140	r	"	ır	,,	





Project: ARCO #601, San Leandro, CA

Spike

Source

Project Number: N/P

Reporting

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

RPD

%REC

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3F30001 - EPA 5035								·····	<u> </u>	
Blank (3F30001-BLK1)				Prepared	& Analyze	ed: 06/30/	03			
cis-1,3-Dichloropropene	ND	0.50	ug/kg							
Freon 113	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	н							
Benzene	ND	0.50	**							
Ethano!	ND	40	**							
Bromobenzene	ND	0.50	17							
tert-Butyl alcohol	ND	20	n							
Bromochloromethane	NĎ	0.50	"							
Methyl tert-butyl ether	ND	0.50	*1							
Bromodichloromethane	ND	0.50	11							
Di-isopropyl ether	ND	0,50	II							
Bromoform	ND	0.50	H			- "				
Ethyl tert-butyl ether	ND	0.50	"							
Bromomethane	ND	2.0	"							
tert-Amyl methyl ether	ND	0.50	n							
1,2-Dichloroethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	**							
sec-Butylbenzene	ND	0.50	11							
tert-Butylbenzene	ND	0.50	п							
Carbon tetrachloride	ND	0.50	11							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	2.0								
Chloroform	ND	0.50	**							
Chloromethane	ND	5.0								
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	,,							
Dibromochloromethane	ND	0.50	n							
1,2-Dibromoethane (EDB)	ND	0.50	n							
Dibromomethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ИĎ	2.0	"							
1,2-Dichlorobenzene	ND	0.50	**							
1,3-Dichlorobenzene	ND	0.50	**							
1,4-Dichlorobenzene	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
1,1-Dichloroethane	ND	0.50	11							

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F30001 - EPA 5035										
Blank (3F30001-BLK1)				Prepared	& Analyz	ed: 06/30/0)3		, , 	
1,2-Dichloroethane	ND	0.50	ug/kg							
1,1-Dichloroethene	ND	0.50	н							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	H							
1,2-Dichloropropane	NĎ	0.50	**							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	#							
Ethylbenzene	ND	0.50	11							
Hexachlorobutadiene	ND	0.50	10							
Isopropylbenzene	ND	0.50								•
p-Isopropyltoluene	ND	0.50	**							
Methylene chloride	ND	2.0	**							
Naphthalene	ND	0.50	н							
n-Propylbenzene	ND	0.50	**							
Styrene	ND	0.50	11							
1,1,1,2-Tetrachloroethane	ND	0.50	D							
1,1,2,2-Tetrachloroethane	ND	0,50	**							
Tetrachloroethene	NĐ	0.50	**							
Toluene	ND	0.50	**							
1,2,3-Trichlorobenzene	ND	0.50	**							
1,2,4-Trichlorobenzene	ND	0.50	**							
1,1,1-Trichloroethane	ND	0.50	11							
1,1,2-Trichloroethane	ND	0.50	11							
Trichloroethene	ND	0,50	H							
Trichlorofluoromethane	ND	0.50	**							
1,2,3-Trichloropropane	ND	0.50	n							
1,2,4-Trimethylbenzene	ND	0.50	n							
1,3,5-Trimethylbenzene	ND	0.50	II .							
Vinyl chloride	ND	0.50	п							
Xylenes (total)	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	5.55		п	5.00		111	60-140			
Surrogate: Dibromofluoromethane	5.12		"	5.00		102	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.55		"	5.00		111	60-140			
Surrogate: Toluene-d8	5.27		#	5.00		105	60-140			

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units_	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F30001 - EPA 5035										
Blank (3F30001-BLK1)				Prepared .	& Analyze	d: 06/30/0)3			
urrogate: 4-Bromofluorobenzene	5.34		ug/kg	5.00		107	60-140			
Laboratory Control Sample (3F30001-I	BS1)			Prepared	& Analyzo	ed: 06/30/0)3			
Benzene	10.0	0.50	ug/kg	10.0	•	100	60-140			
Viethyl tert-butyl ether	10.4	0.50	н	0.01		104	60-140			
Chlorobenzene	11.3	0.50	**	10.0		113	60-140			
1.1-Dichloroethene	10.2	0.50	**	10.0		102	60-140			
Foluene	11.0	0.50	*	10.0		110	60-140			
Trichloroethene	10.8	0.50	17	10.0		108	60-140			
Surrogate: 1,2-Dichloroethane-d4	5,51		,,,	5.00	••• •	110	60-140			<u></u>
Surrogate: 1,2-Dicnioroeinane-u4 Surrogate: Dibromofluoromethane	5.44		,,	5.00		109	60-140			
	5.5 <i>I</i>		,,	5.00		110	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.43		n	5.00		109	60-140			-
Surrogate: Toluene-d8	3.43						60-140			
Surrogate: 4-Bromofluorobenzene	5.80		,,	5.00	G. A	116				
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1	BS2)	0.50	ue/ke		& Analyz				_	
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene		0.50 0.50	ug/kg	Prepared	& Analyz	ed: 06/30/	03		_	
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1	BS2)			Prepared 6.40	& Analyz	ed: 06/30/0	60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene	4.37 7.92	0.50	n	Prepared 6.40 9.92	& Analyz	ed: 06/30/0 68.3 79.8	60-140 60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4	4.37 7.92 29.2	0.50	n	Prepared 6.40 9.92 29.7	& Analyz	ed: 06/30/0 68.3 79.8 98.3	60-140 60-140 60-140			·
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane	4.37 7.92 29.2	0.50	n 11	Prepared 6.40 9.92 29.7	& Analyz	ed: 06/30/ 68.3 79.8 98.3	60-140 60-140 60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane Surrogate: 1,2-Dichloroethane-d4	4.37 7.92 29.2 5.57 5.05 5.57	0.50	n 11	Prepared 6.40 9.92 29.7 5.00 5.00	& Analyz	ed: 06/30/68.3 79.8 98.3	60-140 60-140 60-140 60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane	4.37 7.92 29.2 5.57 5.05	0.50	n 11 11 10	Prepared 6.40 9.92 29.7 5.00 5.00 5.00	& Analyz	ed: 06/30// 68.3 79.8 98.3 /// // 10/ /// 1//	60-140 60-140 60-140 60-140 60-140 60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: 1,2-Dichloroethane-d4 Surrogate: 1,2-Dichloroethane-d4 Surrogate: 7,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene	4.37 7.92 29.2 5.57 5.05 5.57 5.32 5.46	0.50	n 11 11 10	Prepared 6.40 9.92 29.7 5.00 5.00 5.00 5.00 5.00		ed: 06/30// 68.3 79.8 98.3 /// // 10/ // 10/ // 10/ // 109	60-140 60-140 60-140 60-140 60-140 60-140 60-140			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane Surrogate: 7,2-Dichloroethane-d4 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene Laboratory Control Sample Dup (3F30	4.37 7.92 29.2 5.57 5.05 5.57 5.32 5.46	0.50 0.50	n u u u u	Prepared 6.40 9.92 29.7 5.00 5.00 5.00 5.00 Prepared	& Analyz	ed: 06/30/0 68.3 79.8 98.3 /// /// /// /// /// /// /// /// /// /	60-140 60-140 60-140 60-140 60-140 60-140 60-140	11.0	25	
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene Laboratory Control Sample Dup (3F30 Benzene	4.37 7.92 29.2 5.57 5.05 5.57 5.32 5.46 0001-BSD2) 4.88	0.50 0.50	n 11 11 10	Prepared 6.40 9.92 29.7 5.00 5.00 5.00 5.00 Prepared 6.40		ed: 06/30/68.3 79.8 98.3 /// // // // // // // // // // // //	60-140 60-140 60-140 60-140 60-140 60-140 60-140	11.0 1.91	25 11	
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane Surrogate: 7,2-Dichloroethane-d4 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene Laboratory Control Sample Dup (3F30	4.37 7.92 29.2 5.57 5.05 5.57 5.32 5.46	0.50 0.50	" " " " " " " "	Prepared 6.40 9.92 29.7 5.00 5.00 5.00 5.00 Prepared		ed: 06/30/0 68.3 79.8 98.3 /// /// /// /// /// /// /// /// /// /	60-140 60-140 60-140 60-140 60-140 60-140 60-140 03			
Surrogate: 4-Bromofluorobenzene Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: 1,2-Dichloroethane-d4 Surrogate: 7,2-Dichloroethane-d4 Surrogate: 4-Bromofluorobenzene Laboratory Control Sample Dup (3F30 Benzene Methyl tert-butyl ether Toluene	4.37 7.92 29.2 5.57 5.05 5.57 5.32 5.46 0001-BSD2) 4.88 7.77 30.8	0.50 0.50	ug/kg	Prepared 6.40 9.92 29.7 5.00 5.00 5.00 5.00 Prepared 6.40 9.92 29.7		ed: 06/30/68.3 79.8 98.3 /// // // // // // // // // // // //	60-140 60-140 60-140 60-140 60-140 60-140 60-140 03 60-140 60-140	1.91	11	
Laboratory Control Sample (3F30001-1 Benzene Methyl tert-butyl ether Toluene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Dibromofluoromethane Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene Laboratory Control Sample Dup (3F30 Benzene Methyl tert-butyl ether	4.37 7.92 29.2 5.57 5.05 5.37 5.32 5.46 0001-BSD2) 4.88 7.77	0.50 0.50	ug/kg	9.92 29.7 5.00 5.00 5.00 5.00 Prepared 6.40 9.92		ed: 06/30/68.3 79.8 98.3 111 101 111 106 109 ed: 06/30/ 76.2 78.3 104	60-140 60-140 60-140 60-140 60-140 60-140 60-140 60-140 60-140 60-140	1.91	11	





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F30001 - EPA 5035										
Laboratory Control Sample Dup (3F300	01-BSD2)			Prepared	& Analyz	ed: 06/30/	03			
Surrogate: Toluene-d8	5.26		ug/kg	5.00		105	60-140			
Surrogate: 4-Bromofluorobenzene	5.45		D	5.00		109	60-140			
Matrix Spike (3F30001-MS1)	So	urce: MMF0	628-18	Prepared:	: 06/30/03	Analyzed	: 07/01/03	<u> </u>		
Benzene	22.0	1.7	ug/kg	33.1	ND	66.5	60-140			
Methyl tert-butyl ether	29.6	1.7	н	33.1	ND	89.4	60-140			
Chlorobenzene	24.1	1.7	IF	33.1	ND	72.8	60-140			
1,1-Dichloroethene	20.8	1.7	tr	33.1	ND	62.8	60-140			
Toluene	22.8	1.7	**	33.1	ND	68.9	60-140			
Trichloroethene	23.5	1.7	*	33.1	ND	71.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	6.13			5.00		123	60-140	_		
Surrogate: Dibromofluovomethane	5.55		,,	5.00		HI .	60-140			
Surrogate: 1,2-Dichloroethane-d4	6.13		"	5.00		123	60-140			
Surrogate: Toluene-d8	5.48		"	5.00		110	60-140			
Surrogate: 4-Bromofluorobenzene	5.92		"	5. 00		118	60-140			
Matrix Spike (3F30001-MS2)	Se	urce: MMF0	864-03	Prepared	l: 06/30/03	Analyze	d: 07/01/03			·····
Benzene	23.4	2.2	цg/kg	28.5	ND	82.1	60-140			
Methyl tert-butyl ether	36.1	2.2	18	44.2	ND	81.7	60-140			
Toluene	149	2.2	11	132	ND	113	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.39		7	5.00		108	60-140		<u> </u>	
Surrogate: Dibromofluoromethane	5. 05		*	5.00		101	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.39		,,	5.00		108	60-140			
Surrogate: Toluene-d8	5.48		"	5.00		110	60-140			
Surrogate: 4-Bromofluorobenzene	5.86		n	5.00		117	60-140			
Matrix Spike Dup (3F30001-MSD1)	Si	ource: MMF)628-18	Prepared	i: 06/30/03	3 Analyze	d: 07/0 <u>1/03</u>	.		
Benzene	31,7	1.7	ug/kg	33.1	ND	95.8	60-140	36.1	25	QR-0
Methyl tert-butyl ether	32.9	1.7	"	33.1	ND	99.4	60-140	10.6	25	
Chlorobenzene	32.8	1.7	ıı.	33.1	ND	99.1	60-140	30.6	25	QR-0
1,1-Dichloroethene	33.6	1.7	19	33.1	ND	102	60-140	47.1	25	QR-0
Toluene	32.9	1.7	н	33.1	ND	99.4	60-140	36.3	25	QR-0
Trichloroethene	35.4	1.7	10	33.1	ND	107	60-140	40.4	25	QR-0
1110110100100110110										

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F30001 - EPA 5035				· · · · - ·						
Matrix Spike Dup (3F30001-MSD1)	So	urce: MMF0	628-18	Prepared:	06/30/03	Analyzed	1: 07/01/03			
Surrogate: 1,2-Dichloroethane-d4	5.54		ug/kg	5.00		111	60-140			
Surrogate: Dibromofluoromethane	5,47		"	5.00		109	60-140			
Surrogate: 1,2-Dichloroethane-d4	5,54		#	5.00		111	60-140			
Surrogate: Toluene-d8	5.41		"	5.00		108	60-140			
Surrogate: 4-Bromofluorobenzene	5.86		μ	5.00		117	60-140			
Matrix Spike Dup (3F30001-MSD2)	So	urce: MMF0	864-03	Prepared:	06/30/03	Analyzeo	1: 07/01/0 <u>3</u>			
Benzene	22.6	2.1	ug/kg	27.3	ND	82.8	60-140	3.48	25	
Methyl tert-butyl ether	34.6	2.1		42.4	ND	81.6	60-140	4.24	25	
Toluene	139	2,1	U	127	ND	109	60-140	6.94	25	
Surrogate: 1,2-Dichloroethane-d4	5.27		<u>"</u>	5.00		105	60-140		:	
Surrogate: Dibromofluoromethane	5.44		"	5.00		109	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.27		řř.	5.00		105	60-140	-		
Surrogate: Toluene-d8	5.37		"	5.00		107	60-140			
Darrogue. Tomene ac						111	60-140			
Surrogate: 4-Bromafluarobenzene	5.69		"	5.00		114	00-140			
Batch 3G01002 - EPA 5030B MeOH	5.69				& Analyz	ed: 07/01/				
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1)		0.050			& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene	5.69 ND ND	0.050	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol	ND		mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene	ND ND	10	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol	ND ND ND	10 0.050	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane	ND ND ND	10 0.050 5.0	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether	ND ND ND ND	10 0.050 5.0 0.050	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane	ND ND ND ND ND	10 0.050 5.0 0.050 0.025	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether	ND ND ND ND ND ND	10 0.050 5.0 0.050 0.025 0.050	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether Bromoform	ND ND ND ND ND ND ND	10 0.050 5.0 0.050 0.025 0.025 0.025	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether	ND N	10 0.050 5.0 0.050 0.025 0.050 0.025	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether Bromoform Ethyl tert-butyl ether	ND N	10 0.050 5.0 0.050 0.025 0.050 0.025 0.050 0.025	mg/kg		& Analyz					
Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether Bromoform Ethyl tert-butyl ether Bromomethane	ND N	10 0.050 5.0 0.050 0.025 0.050 0.025 0.050 0.025	mg/kg		& Analyz					
Batch 3G01002 - EPA 5030B MeOH Blank (3G01002-BLK1) Benzene Ethanol Bromobenzene tert-Butyl alcohol Bromochloromethane Methyl tert-butyl ether Bromodichloromethane Di-isopropyl ether Bromoform Ethyl tert-butyl ether Bromomethane tert-Amyl methyl ether	ND N	10 0.050 5.0 0.050 0.025 0.050 0.025 0.050 0.025 0.025	mg/kg		& Analyz					

Sequoia Analytical - Morgan Hill



885 Jarvis Dr Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Spike

Source

Project Number: N/P

Reporting

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

RPD

%REC

tert Bulylbenzene ND 0.550 " Carbon tetrachloride ND 0.050 " Chloroethane ND 0.050 " Chloroethane ND 0.050 " Chloroform ND 0.050 " 2-Chlorotoluene ND 0.050 " 4-Chlorotoluene ND 0.050 " 1,2-Dibromochane ND 0.050 " 1,2-Dibromoethane ND 0.050 " 1,1-Dibromoethane ND 0.050 " 1,1-Dibromoethane ND 0.050 " 1,1-Dibromoethane ND 0.050 " 1,1-Dichloroethane ND 0.050	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Sec. Butylbenzene	Batch 3G01002 - EPA 5030B M	еОН									
See- Bulylbenzene ND 0.050 mg/ks turn-Bulybenzene ND 0.050 " Carbon tetrachloride ND 0.050 " Chlorochane ND 0.050 " Dibromochane ND 0.050 " Dibromochane (EDB) ND 0.050 " 1,2-Dibromochane (EDB) ND 0.050 " 1,2-Dichlorochane ND 0.050 " 1,2-Dichlorochane ND 0.050 " 1,4-Dichlorochane ND 0.050 " 1,1-Dichlorochane ND 0.050 " 1,1-Dichlorochane ND 0.050 "	Blank (3G01002-BLK1)		· <u>-</u>		Prepared	& Analyz	ed: 07/01/0)3		~	
Carbon tetrachloride	sec-Butylbenzene	ND									
Chlorochane	tert-Butylbenzene	ND	0.050	11							
Chloroefazene	Carbon tetrachloride	ND	0.050	II .							
Chlorochane ND 0.050 " Chloromethane ND 0.050 " Chloromethane ND 0.050 " Chloromethane ND 0.050 " Chloromethane ND 0.050 " Chlorotoluene ND 0.050 " Chloromethane ND 0.050 " I,2-Dibromochane ND 0.050 " I,3-Diblorobenzene ND 0.050 " I,4-Diblorobenzene ND 0.050 " I,4-Diblorobenzene ND 0.050 " I,1-Diblorochane ND	Chlorobenzene	ND	0.050	II .							
Chlorotom	Chloroethane	ND	0.20	μ							
Chlorontethane ND 0.250 4-Chlorotolucne ND 0.050 4-Chlorotolucne ND 0.050 4-Chlorotolucne ND 0.050 1,2-Dibromoethane ND 0.050 1,2-Dibromoethane ND 0.050 1,2-Dibromoethane ND 0.050 1,2-Dibromoethane ND 0.050 1,2-Dichlorobenzene ND 0.050 1,3-Dichlorobenzene ND 0.050 1,4-Dichlorobenzene ND 0.050 1,4-Dichlorobenzene ND 0.050 1,1-Dichlorotethane ND 0.050 1,2-Dichlorotethane ND 0.050 1,2-Dichlorotethane ND 0.050 1,1-Dichlorotethane ND 0.050 1,1-Dichloro	Chloroform	ND	0.050	**							
AChlorotoluene	Chloromethane	ND	0.20	**							•
4-Chlorotolstene ND 0.050 " 1,2-Dibromochlarocethane ND 0.050 " 1,2-Dibromochlarocethane ND 0.050 " 1,2-Dichloropropropane ND 0.10 " 1,2-Dichlorobenzene ND 0.050 " 1,4-Dichlorobenzene ND 0.050 " 1,4-Dichlorochenzene ND 0.050 " 1,4-Dichlorochenzene ND 0.050 " 1,4-Dichlorochenzene ND 0.050 " 1,1-Dichlorochene ND 0.050 " 1,1-Dichlorochene ND 0.050 " 1,1-Dichlorochene ND 0.050 " 1,1-Dichloropropane ND 0.050 " 1,2-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " Hexachlorobutatiene ND 0.050 " Entyptenzen	2-Chlorotoluene	ND	0.050	**							•
Dibromoetharne (EDB) ND 0.050 "	4-Chlorotoluene	ND	0.050	n							
	Dibromochloromethane	ND	0.050	н							
Dibromomethane ND 0.050 " 1,2-Dibromo-3-chloropropane ND 0.10 " 1,2-Dichlorobenzzene ND 0.050 " 1,3-Dichlorobenzzene ND 0.050 " Dichlorodifluoromethane ND 0.050 " 1,1-Dichloroethane ND 0.050 " 1,2-Dichloroethane ND 0.050 " 1,1-Dichloroethene ND 0.050 " 1,1-Dichloroethene ND 0.050 " 1,2-Dichloroethene ND 0.050 " 1,2-Dichloroethene ND 0.050 " 1,2-Dichloroethene ND 0.050 " 1,2-Dichloroethene ND 0.050 " 1,2-Dichloropopane ND 0.050 " 1,2-Dichloroethene ND 0.050 " 1,1-Dichloroepopane ND 0.050 " 1,1-Dichloroethene ND 0.050 " Ethylbenzzene	1,2-Dibromoethane (EDB)	ND	0.050	11							
		ND	0.050	11			:				
1,4-Dichlorobenzene	1,2-Dibromo-3-chloropropane	ND	0.10	н							
1,3-Dicklorobenzene ND 0.050 " 1,4-Dicklorobenzene ND 0.050 " Dicklorodifluoromethane ND 0.050 " 1,1-Dickloroethane ND 0.050 " 1,2-Dickloroethane ND 0.050 " 1,1-Dickloroethene ND 0.050 " cis-1,2-Dickloroethene ND 0.050 " 1,2-Dickloropropane ND 0.050 " 1,2-Dickloropropane ND 0.050 " 1,3-Dickloropropane ND 0.050 " 2,2-Dickloropropane ND 0.050 " 1,1-Dickloropropane ND 0.050 " 1,1-Dickloropropane ND 0.050 " Hexacklorobutadiene ND 0.050 " Hexacklorobutadiene ND 0.050 " Isopropyllouene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene	1,2-Dichlorobenzene	ND	0.050	u							
1,4-Dichlorobenzene ND 0.050 " Dichlorodifluoromethane ND 0.050 " 1,2-Dichloroethane ND 0.050 " 1,2-Dichloroethane ND 0.050 " 1,1-Dichloroethene ND 0.050 " cis-1,2-Dichloroethene ND 0.050 " 1,2-Dichloroptene ND 0.050 " 1,2-Dichloroptopane ND 0.050 " 1,3-Dichloroptopane ND 0.050 " 2,2-Dichloroptopane ND 0.050 " 1,1-Dichloroptopane ND 0.050 " 1,1-Dichloroptopane ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " P-Isopropylbenzene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " ND 0.050 " <td></td> <td>ND</td> <td>0.050</td> <td>H</td> <td></td> <td></td> <td></td> <td>• •</td> <td></td> <td></td> <td></td>		ND	0.050	H				• •			
Dichlorodifluoromethane ND 0.050 " 1,1-Dichloroethane ND 0.050 " 1,2-Dichloroethane ND 0.050 " 1,1-Dichloroethene ND 0.050 " cis-1,2-Dichloroethene ND 0.050 " trans-1,2-Dichloroethene ND 0.050 " 1,2-Dichloroptopane ND 0.050 " 1,3-Dichloroptopane ND 0.050 " 1,1-Dichloroptopane ND 0.050 " 1,1-Dichloroptopene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " P-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " ND 0.050 " ND 0.050 " ND 0.050 " ND		ND	0.050	"							
1,1-Dichloroethane ND 0.050 " 1,2-Dichloroethane ND 0.050 " 1,1-Dichloroethene ND 0.050 " cis-1,2-Dichloroethene ND 0.050 " 1,2-Dichloroptopane ND 0.050 " 1,3-Dichloroptopane ND 0.050 " 2,2-Dichloroptopane ND 0.050 " 1,1-Dichloroptopane ND 0.050 " 1,1-Dichloroptopane ND 0.050 " Hexachlorobutadiene ND 0.050 " Ethylbenzene ND 0.050 " P-Isopropylbenzene ND 0.050 " P-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "	•	ND	0.050								
1,2-Dichloroethane ND 0.050 " 1,1-Dichloroethene ND 0.050 " cis-1,2-Dichloroethene ND 0.050 " 1,2-Dichloropropane ND 0.050 " 1,3-Dichloropropane ND 0.050 " 2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " P-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	"							
I,1-Dichloroethene ND 0.050 " cis-1,2-Dichloroethene ND 0.050 " 1,2-Dichloroptopane ND 0.050 " 1,3-Dichloropropane ND 0.050 " 2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " 1,1-Dichloropropane ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropyllenzene ND 0.050 " P-Isopropylloulene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	17							
trans-1,2-Dichloroethene 1,2-Dichloroptopane 1,2-Dichloroptopane 1,3-Dichloroptopane 1,3-Dichloroptopane ND 0.050 1,3-Dichloroptopane ND 0.050 1,1-Dichloroptopane ND 0.050 1,1-Dichloroptopane ND 0.050 1,1-Dichloroptopene ND 0.050 1,1-Dichloroptopen		ND	0.050	TT							
trans-1,2-Dichloroethene ND 0.050 " 1,2-Dichloropropane ND 0.050 " 1,3-Dichloropropane ND 0.050 " 2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "	•	ND	0.050	**							
1,2-Dichloropropane ND 0.050 " 1,3-Dichloropropane ND 0.050 " 2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "	•	ND	0.050	**							
1,3-Dichloropropane ND 0.050 " 2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	**							
2,2-Dichloropropane ND 0.050 " 1,1-Dichloropropene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	"							
1,1-Dichloropropene ND 0.050 " Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	H							
Ethylbenzene ND 0.050 " Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.050 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "	• •	ND	0.050	n							
Hexachlorobutadiene ND 0.050 " Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.20 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	н							
Isopropylbenzene ND 0.050 " p-Isopropyltoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.20 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	*							
p-IsopropyItoluene ND 0.050 " Methylene chloride ND 0.050 " Naphthalene ND 0.20 " n-PropyIbenzene ND 0.050 " Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "		ND	0.050	H							
Methylene chloride ND 0.050 " Naphthalene ND 0.20 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,2-Tetrachloroethane ND 0.050 "	•	ND	0.050								
Naphthalene ND 0.20 " n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,2-Tetrachloroethane ND 0.050 "	•		0.050	"							
n-Propylbenzene ND 0.050 " Styrene ND 0.050 " 1,1,2-Tetrachloroethane ND 0.050 "		ND	0.20	41							
Styrene ND 0.050 " 1,1,1,2-Tetrachloroethane ND 0.050 "	•			11							
1,1,2-Tetrachloroethane ND 0.050 "				п							
4)4)410	-			п							
	1,1,2,2-Tetrachloroethane	ND	0.050	11							





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01002 - EPA 5030B MeOH	[
Blank (3G01002-BLK1)		· <u>-</u> .		Prepared •	& Analyze	ed: 07/01/	03			
Tetrachloroethene	ND	0.050	mg/kg							
Toluene	ND	0.050	u							
1,2,3-Trichlorobenzene	ND	0.050	11							
1,2,4-Trichlorobenzene	ND	0.050	n							
1,1,1-Trichloroethane	ND	0.050	и							
1,1,2-Trichloroethane	ND	0.050	ıı .							
Trichloroethene	ND	0.050	**							
Trichlorofluoromethane	ИD	0.10	H							
1,2,3-Trichloropropane	ND	0.050	н							
1,2,4-Trimethylbenzene	ND	0.050	"							
1,3,5-Trimethylbenzene	ND	0.050	н							
Vinyl chloride	ND	0.050	"							
Xylenes (total)	ND	0.050								
Surrogate: 1,2-Dichloroethane-d4	0.00472		,,	0.00500		94.4	60-140	_		
Surrogate: Dibromofluoromethane	0.00473		25	0.00500		94.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00472		#	0.00500		<i>94.4</i> .	60-140			
Surrogate: Toluene-d8	0.00525		,,	0.00500		105	60-140			
Surrogate: 4-Bromofluorobenzene	0.00439		,,	0.00500		<i>87.8</i>	60-140			
Laboratory Control Sample (3G01002-1	RS1)			Prepared	& Analyz	ed: 07/01/	'03			
Benzene	0.882	0.050	mg/kg	1.25		70.6	60-140			
Methyl tert-butyl ether	0.760	0.025	"	1.00		76.0	60-140			
Chlorobenzene	1.02	0.050		1.25		81.6	60-140			
1.1-Dichloroethene	0.503	0.050	н	1.25		40.2	60-140			Q-L1
Toluene	1,03	0.050	п	1.25		82.4	60-140			
Trichloroethene	1.08	0.050	IF	1.25		86.4	60-140			
Tremorocatere							 .			
Surrogate: 1,2-Dichloroethane-d4	0.00461		"	0.00500		92.2	60-140			
Surrogate: Dibromofluoromethane	0.00498		r	0.00500		99.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00461		,,	0.00500		92.2	60-140			
Surrogate: Toluene-d8	0.00532		*	0.00500		106	60-140			
Surrogate: 4-Bromofluorobenzene	0.00450		"	0.00500		90.0	60-140			





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
										
Batch 3G01002 - EPA 5030B MeOH				Prepared &	2. Analyze	d: 07/01/		*		
Matrix Spike (3G01002-MS1)		rce: MMF0		1.25	ND	70.0	60-140			
Benzene	0.875	0.050	mg/kg	1.00	ND	72.2	60-140			
Methyl tert-butyl ether	0.722	0.025	,,	1.00	ND	82.4	60-140			
Chlorobenzene	1.03	0.050	"	1.25	ND	38.4	60-140			Q-LIM
1,1-Dichloroethene	0.480	0.050	 **	1.25	0.0092	81.7	60-140			
Toluene	1.03	0.050	"	1.25	0.0092 ND	84.8	60-140			
Trichloroethene	1.06	0.050	,,	1.25	ND	04.0	00-140			
Surrogate: 1,2-Dichloroethane-d4	0.00462		"	0.00500		92.4	60-140	·		
Surrogate: Dibromofluoromethane	0.00449		*	0.00500		89.8	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00462		*	0.00500		92.4	60-140			
Surrogate: Toluene-d8	0.00532		"	0.00500		106	60-140			
Surrogate: 4-Bromofluorobenzene	0.00442		"	0.00500		88.4	60-140			
25 4 1 5 C. Vis. Dur. (25 01002 MCD1)	Sou	rce: MMF(1628-09	Prepared of	& Analyz	ed: 07/01/	'03			
Matrix Spike Dup (3G01002-MSD1)	0.894	0.050	mg/kg	1,25	ND	71.5	60-140	2.15	25	
Benzene	0.786	0.025	#	1.00	ND	78.6	60-140	8.49	25	
Methyl tert-butyl ether	1.11	0.050		1,25	ND	88.8	60-140	7.48	25	
Chlorobenzene	0.483	0.050	11	1.25	ND	38.6	60-140	0.623	25	Q-LIN
1,1-Dichloroethene	1.07	0.050	11	1.25	0.0092	84.9	60-140	3.81	25	
Toluene Trichloroethene	1.08	0.050	IF	1.25	ND	86.4	60-140	1.87	25	
									·	
Surrogate: 1,2-Dichloroethane-d4	0.00450		"	0.00500		90.0	60-140			
Surrogate: Dibromofluoromethane	0.00445		"	0.00500		89.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	0.00450		"	0.00500		90.0	60-140			
Surrogate: Toluene-d8	0.00542		*	0.00500		108	60-140			
Surrogate: 4-Bromofluorobenzene	0.00440		,,	0.00500		88.0	60-140			
Batch 3G01033 - EPA 5035						_				
Blank (3G01033-BLK1)				Prepared	& Analyz	ed: 07/01	/03			
Benzene	ND	0.50	ug/kg							
Ethanol	ND	40	H							
Bromobenzene	NĎ	0.50	n							
tert-Butyl alcohol	ND	20	**							
Bromochloromethane	ND	0.50	**							
Methyl tert-butyl ether	ND	0.50	•							

Sequoia Analytical - Morgan Hill



885 Jarvis Dr Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035										
Blank (3G01033-BLK1)				Prepared	& Analyz	ed: 07/01/0)3			
Bromodichloromethane	ND	0.50	ug/kg							
Di-isopropyl ether	ND	0.50	п							
Bromoform	ND	0.50	II .							
Ethyl tert-butyl ether	ND	0.50	u							
Bromomethane	ND	2.0	U							
ert-Amyl methyl ether	ND	0.50	11							
,2-Dichloroethane	ND	0.50	H							
n-Butylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
ec-Butylbenzene	ND	0.50	u							
ert-Butylbenzene	ND	0.50	**							
Carbon tetrachloride	ND	0.50	H							
Chlorobenzene	ND	0.50	н			÷				
Chloroethane	ND	2.0	**							
Chloroform	ND	0.50	u							
Chloromethane	ND	5.0								
-Chlorotoluene	ND	0.50	11							
-Chlorotoluene	ND	0.50	14							
Dibromochloromethane	ND	0.50	н							
1,2-Dibromoethane (EDB)	ND	0.50	n .							
Dibromomethane	ND	0.50	II							
,2-Dibromo-3-chloropropane	ND	2.0	н							
,2-Dichlorobenzene	ND	0.50	н							
,3-Dichlorobenzene	ND	0.50	tt							
1,4-Dichlorobenzene	ND	0.50	н							
Dichlorodifluoromethane	ND	0.50	11							
1,1-Dichloroethane	ND	0.50	**							
,2-Dichloroethane	ND	0.50	IJ							
1,1-Dichloroethene	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50	u							
rans-1,2-Dichloroethene	ND	0.50	30							
,2-Dichloropropane	ND	0.50	31							
,3-Dichloropropane	ND	0.50	ग							
2,2-Dichloropropane	ND	0.50	n							
1,1-Dichloropropene	ND	0.50	et .							
Ethylbenzene	ND	0.50								

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URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035										
Blank (3G01033-BLK1)		<u>.</u>		Prepared	& Analyze	d: 07/01/0)3			
Hexachlorobutadiene	ND	0.50	ug/kg							
Isopropylbenzene	ND	0.50	**							
p-Isopropyltoluene	ND	0.50								4
Methylene chloride	ND	2.0	P							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	11							
Styrene	ND	0.50	п							
1,1,1,2-Tetrachloroethane	ND	0.50	п							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	**							
Toluene	ND	0.50	11							
1,2,3-Trichlorobenzene	ND	0.50	**							
1,2,4-Trichlorobenzene	ND	0.50	**							
1,1,1-Trichloroethane	ND	0.50	н							
1,1,2-Trichloroethane	ND	0.50	II.							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	**							
1,2,3-Trichloropropane	ND	0.50	11							
1,2,4-Trimethylbenzene	ND	0.50	11							
1,3,5-Trimethylbenzene	ND	0.50	11							
Vinyl chloride	ND	0.50	п							
Xylenes (total)	ND	0.50	11							
Surrogate: 1,2-Dichloroethane-d4	5.78		#	5.00		116	60-140			
Surrogate: Dibromofluoromethane	5.28		*	5.00		106	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.78		**	5.00		116	60-140			
Surrogate: Toluene-d8	5.23		H	5.00		105	60-140			
Surrogate: 4-Bromofluorobenzene	5.42		"	5.00		108	60-140			





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035										
Laboratory Control Sample (3G01033-BS1))		. <u>-</u> .	Prepared	& Analyz	ed: 07/01/				
Benzene	8.95	0.50	ug/kg	10.0		89.5	60-140			
Methyl tert-butyl ether	9.03	0.50	п	10.0		90.3	60-140			
Chlorobenzene	9.95	0.50	II .	10.0		99.5	60-140			
1,1-Dichloroethene	9.83	0.50	u	10.0		98.3	60-140			
Toluene	9.29	0.50	n	0.01		92.9	60-140			•
Trichloroethene	9.80	0.50	**	10.0		98.0	60-140			
Surrogate: 1,2-Dickloroethane-d4	5.36			5.00		107	60-140			
Surrogate: Dibromofluoromethane	5.08		"	5.00		102	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.36		**	5.00		107	60-140			
Surrogate: Toluene-d8	5.18		*	5.00		104	60-140			
Surrogate: 4-Bromofluorobenzene	5.45		"	5.00		109	60-140			
Laboratory Control Sample (3G01033-BS2))			Prepared	& Analyz	ed: 07/01/	03		- 4	
Benzene	5.21	0.50	ug/kg	6.40		81.4	60-140			
Methyl tert-butyl ether	7.92	0.50	*	9.92		79.8	60-140			
Toluene	32.6	0.50	IT	29.7		110	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.18		*	5.00		104	60-140			
Surrogate: Dibromofluoromethane	5.09		*	5.00		102	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.18		*	5.00		104	60-140			
Surrogate: Toluene-d8	5.06		u	5.00		101	60-140			
Surrogate: 4-Bromofluorobenzene	5.54		u	5.00		111	60-140			
Matrix Spike (3G01033-MS1)	So	ource: MMF(628-17	Prepared	& Analy2	zed: 07/01/	03			
Benzene	30.3	1.6	ug/kg	32.2	ND	94.1	60-140			
Methyl tert-butyl ether	32.2	1.6	н	32.2	ND	100	60-140			
Chlorobenzene	32.1	1.6	н	32.2	ND	99.7	60-140			
1.1-Dichloroethene	33.3	1.6	н	32.2	ND	103	60-140			
Toluene	32.0	1.6	н	32.2	ND	99.4	60-140			
Trichloroethene	33.7	1.6	ŧŧ	32.2	ND	105	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.22		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.00		104	60-140			
Surrogate: Dibromofluoromethane	5.39		"	5.00		108	60-140			
Surrogate: 1,2-Dichloroethane-d4	5. 2 2			5.00		104	60-140			

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035								_		
Matrix Spike (3G01033-MS1)	So	urce: MMF0	628-17	Prepared	& Analyze	ed: <u>07/01/</u>)3			
Surrogate: Toluene-d8	5.18		ug/kg	5.00		104	60-140			
Surrogate: 4-Bromofluorobenzene	5.63		rr	5.00		113	60-140			
Matrix Spike (3G01033-MS2)	So	urce: MMF0	701-02	Prepared:	07/01/03	Analyzed	: 07/02/03			
Benzene	16.3	1.6	ug/kg	20.2	ND	80.7	60-140			
Methyl tert-butyl ether	26.1	1.6	U	31.3	ND	83.4	60-140			
Toluene	92.0	1.6	п	93.8	ND	98.1	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		n ·	5.00	· 	110	60-140		. <u> </u>	
Surrogate: Dibromofluoromethane	5,28		•	5.00		106	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		•	5.00		110	60-140			
Surrogate: Toluene-d8	5.06		"	5.00		101	60-140			
Surrogate: 4-Bromofluorobenzene	5.55		"	5.00		111.	60-140			
Matrix Spike Dup (3G01033-MSD1)	So	urce: MMF0	628-17	Prepared	& Analyz	ed: 07/01/	03			
Benzene	31.3	1.6	ug/kg	31.4	ND	99.7	60-140	3.25	25	
Methyl tert-butyl ether	32.8	1.6		31.4	ND	104	60-140	1.85	25	
Chlorobenzene	31.6	1.6		31.4	ND	101	60-140	1.57	25	
1,1-Dichloroethene	33.5	1.6	11	31.4	ND	107	60-140	0.599	25	
Toluene	32.4	1.6	n	31.4	ND	103	60-140	1.24	25	
Trichloroethene	36.3	1.6	tt	31.4	ND	116	60-140	7.43	25	•
Surrogate: 1,2-Dichloroethane-d4	5.49		"	5.00		110	60-140			·-
Surrogate: Dibromofluoromethane	5.34		**	5.00		107	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.49		W	5.00		110	60-140			
Surrogate: Toluene-d8	5.17		"	5.00		103	60-140			
Surrogate: 1 otaene-40 Surrogate: 4-Bromofluorobenzene	5.74		u	5.00		115	60-140			
Matrix Spike Dup (3G01033-MSD2)	ç,	ource: MMF	0701-02	Prepared	: 07/01/03	Analyze	d: 07/02/03	1		
Benzene	15.7	1.6	ug/kg	20.2	ND	77.7	60-140	3.75	25	
	25.3	1.6	ugug "	31.3	ND	80.8	60-140	3.11	25	
Methyl tert-butyl ether Toluene	99.5	1.6	11	93.8	ND	106	60-140	7.83	25	
				5 DO		107	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.34		,,	5.00		101	60-140			
Surrogate: Dibromofluoromethane	5.03		μ	5.00		101	00~140			

Sequoia Analytical - Morgan Hill





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G01033 - EPA 5035										
Matrix Spike Dup (3G01033-MSD2)	So	urce: MMF0	701-02	Prepared:	07/01/03	Analyzed	1: 07/02/03			
Surrogate: 1,2-Dichloroethane-d4	5.34		ug/kg	5.00		107	60-140			
Surrogate: Toluene-d8	5.32		"	5.00		106	60-140			
Surrogate: 4-Bromofluorobenzene	5.28		,,	5.00		106	60-140			
Batch 3G02004 - EPA 5035										
Blank (3G02004-BLK1)				Prepared	& Analyz	ed: 07/02/	03			
Benzene	ND	0.50	ug/kg							
Ethanol	ND	40	И							
Bromobenzene	ND	0.50	II							
tert-Butyl alcohol	ND	20	"							
Bromochloromethane	ND	0.50	11							
Methyl tert-butyl ether	ND	0.50	"							
Bromodichloromethane	ND	0.50	11							
Di-isopropyl ether	ND	0.50	II .							
Bromoform	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Bromomethane	ND	2.0	Ħ							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	11							
n-Butylbenzene	ND	0.50								
1,2-Dibromoethane (EDB)	ND	0.50								
sec-Butylbenzene	ND	0.50	1)							
tert-Butylbenzene	ND	0.50	n							
Carbon tetrachloride	ND	0.50	11							
Chlorobenzene	ND	0.50	H .							
Chloroethane	ND	2.0	tt							
Chloroform	ND	0.50	**							
Chloromethane	ND	5.0	17							
2-Chlorotoluene	ND	0.50								
4-Chlorotoluene	ND	0.50	11							
Dibromochloromethane	ND	0.50	11							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50								
1,2-Dibromo-3-chloropropane	ND	2.0	"							
1,2-Dichlorobenzene	ND	0.50								





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC_	%REC Limits	RPD	RPD Limit	Notes
Batch 3G02004 - EPA 5035										
Blank (3G02004-BLK1)				Prepared	& Analyz	ed: 07/02/	03			
1,3-Dichlorobenzene	ND	0.50	ug/kg							•
1,4-Dichlorobenzene	ND	0.50	п							
Dichlorodifluoromethane	ND	0.50	н							
1,1-Dichloroethane	ND	0.50	*							
1,2-Dichloroethane	ND	0.50	**							-
1,1-Dichloroethene	ND	0.50	**							
cis-1,2-Dichloroethene	ND	0.50	11							
trans-1,2-Dichloroethene	ND	0.50	п			-				
1,2-Dichloropropane	ND	0.50	н							
1,3-Dichloropropane	ND	0.50								
2,2-Dichloropropane	ND	0.50	u							
1,1-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	11							
Hexachlorobutadiene	ND	0.50	н							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	**							
Methylene chloride	ND	2.0	11							
Naphthalene	ND	0.50	14							
n-Propylbenzene	ND	0.50	н							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	u							
1,1,2,2-Tetrachloroethane	ND	0.50	**							
Tetrachloroethene	ND	0.50	**							
Toluene	ND	0.50	11							
1,2,3-Trichlorobenzene	ND	0.50	U							
1,2,4-Trichlorobenzene	ND	0.50	"							
1.1.1-Trichloroethane	ND	0.50	17							
1,1,2-Trichloroethane	ND	0.50	n							
Trichloroethene	ND	0.50	н							
Trichlorofluoromethane	ND	0.50	н							
1,2,3-Trichloropropane	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50	u							
1,3,5-Trimethylbenzene	ND	0.50	11							•
Vinyl chloride	ND	0.50		•						
Xylenes (total)	ND	0.50								





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G02004 - EPA 5035										
Blank (3G02004-BLK1)				Prepared	& Analyze	d: 07/02/0)3			
Surrogate: 1,2-Dichloroethane-d4	5.00		ug/kg	5.00		100	60-140			
Surrogate: Dibromofluoromethane	4.45		*	5.00		89.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.00		**	5.00		100	60-140			
Surrogate: Toluene-d8	4.95		n	5.00		99.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.27		"	5.00		105	60-140			
Laboratory Control Sample (3G02004-BS1)			Prepared	& Analyze	ed: 07/02/0)3			
Benzene	8.91	0.50	ug/kg	10.0		89.1	60-140			
Methyl tert-butyl ether	9.22	0.50	н	10.0		92.2	60-140			
Chlorobenzene	10.1	0.50	**	10.0		101	60-140			
1,1-Dichloroethene	9.65	0.50	**	10.0		96.5	60-140			
Toluene	9.78	0.50	"	10.0		97.8	60-140			
Trichloroethene	9.77	0.50	*	10.0		97.7	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.97		"	5.00		99.4	60-140			
Surrogate: Dibromofluoromethane	5.05		r	5.00		101	60-140			
Surrogate: 1,2-Dichloroethane-d4	4,97		r	5.00		99.4	60-140			
Surrogate: Toluene-d8	5.12		"	5.00		102	60-140			
Surrogate: 4-Bromofluorobenzene	5.53		*	5.00		111	60-140			
Laboratory Control Sample (3G02004-BS2)			Prepared	& Analyz	ed: 07/02/	03			
Benzene	5.13	0.50	ug/kg	6.40		80.2	60-140			
Methyl tert-butyl ether	7.87	0.50	п	9.92		79.3	60-140			
Toluene	30.9	0.50	н	29.7		104	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.88	 		5.00		97.6	60-140	_		
Surrogate: Dibromofluoromethane	4.48		"	5.00		89.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.88		•	5.00		97. 6	60-140			
Surrogate: Toluene-d8	4.59		"	5.00		91.8	60-140			
Surrogate: 4-Bromofluorobenzene	4,85		"	5.00		97.0	60-140			





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

	_	Reporting		Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	76KEC	Citing	10.0	Dittit	110.00
Batch 3G02004 - EPA 5035						<u>,</u>				
Laboratory Control Sample Dup (3G0200	4-BSD1)				& Analyz	ed: 07/02/0				
Веплете	8.90	0.50	ug/kg	10.0		89.0	60-140	0.112	25	
Methyl tert-butyl ether	9.21	0.50	11	10.0		92.1	60-140	0.109	11	
Chlorobenzene	9.82	0.50	17	10.0		98.2	60-140	2.81	25	
1,1-Dichloroethene	9.51	0.50	11	10.0		95.1	60-140	1.46	25	
Toluene	9.73	0.50	n ·	10.0		97.3	60-140	0.513	25	
Trichloroethene	10.3	0.50	Ħ	10.0		103	60-140	5.28	25	
Surrogate: 1,2-Dichloroethane-d4	4.91		"	5.00		98.2	60-140	-		
Surrogate: Dibromofluoromethane	4.49		"	5.00		89.8	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.91		"	5.00		98.2	60-140			
Surrogate: Toluene-d8	4.53		"	5.00		90.6	60-140			
Surrogate: 4-Bromofluorobenzene	4.93		и	5.00		98.6	60-140			
	ç.	urce: MMG(ነበ3ፈ_በጿ	Prepared	& Analyz	ed: 07/02/	03			
Matrix Spike (3G02004-MS1)	17.2	1.8	ug/kg	23.6	ND	72.9	60-140			
Benzene	38.5	1.8	11	36.5	4.4	93.4	60-140			
Methyl tert-butyl ether	110	1.8	п	109	ND	101	60-140			
Toluene	,10	1.0				•				
Surrogate: 1,2-Dichloroethane-d4	5.05		"	5.00		101	60-140			
Surrogate: Dibromofluoromethane	4.63		#	5.00		92.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.05		"	5.00		101	60-140			
Surrogate: Toluene-d8	5.03		•	5.00		101	60-140			
Surrogate: 4-Bromofluarobenzene	5.29		u	5.00		106	60-140			•
Matrix Spike Dup (3G02004-MSD1)	Sc	ource: MMG	0034-08	Prepared	& Analya	zed: 07/02/	/03			
Benzene	15.0	1.8	ug/kg	23.7	ND	63.3	60-140	13.7	25	
Methyl tert-butyl ether	38.0	1.8	"	36.7	4,4	91.6	60-140	1.31	25	
Toluene	78.9	1.8	μ .	110	ND	71.7	60-140	32.9	25	QR-0
							60 140			
Surrogate: 1,2-Dichloroethane-d4	5.06		n	5,00		101	60-140			
Surrogate: Dibromofluoromethane	4.97		"	5.00		99.4	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.86		"	5.00		97.2	60-140			
Surrogate: Toluene-d8	4.72		#	5.00		94.4	60-140			
Surrogate: 4-Bromofluorobenzene	5.12		*	5.00		102	60-140			





Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G03012 - EPA 5035		<u> </u>				<u> </u>	<u></u>			
Blank (3G03012-BLK1)				Prepared	& Analyze	ed: 07/03/0	03			·
Benzene	ND	0.50	ug/kg							
Ethanol	ND	40	**							
Bromobenzene	ND	0.50	n							
tert-Butyl alcohol	ND	20	"							
Bromochloromethane	ND	0.50	н							
Methyl tert-butyl ether	ND	0.50	п							
Bromodichloromethane	ND	0.50	**							
Di-isopropyl ether	ND	0.50	**							
Bromoform	ND	0.50	n							
Ethyl tert-butyl ether	ND	0.50	**							
Bromomethane	ND	2.0	н							
tert-Amyl methyl ether	ND	0.50	н							
1,2-Dichloroethane	ИD	0.50	н							
n-Butylbenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	TP			•				
sec-Butylbenzene	ND	0.50	**							
tert-Butylbenzene	ND	0.50	11							
Carbon tetrachloride	ND	0.50	U							
Chlorobenzene	ИD	0.50	н							
Chloroethane	ND	2.0	"							
Chloroform	ND	0.50	Ħ .							
Chloromethane	ИD	5.0	4							
2-Chlorotoluene	ND	0.50	n							
4-Chlorotoluene	ND	0.50	н							
Dibromochloromethane	ND	0.50	II							
1,2-Dibromoethane (EDB)	ND	0.50	•							
Dibromomethane	ND	0.50	н							
1,2-Dibromo-3-chloropropane	ND	2.0	"							
I,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	п							
1,4-Dichlorobenzene	ND	0.50	11							
Dichlorodifluoromethane	ND	0.50	**							
1,1-Dichloroethane	ND	0.50	11							
1,2-Dichloroethane	ИĎ	0.50	rs.							-
1,1-Dichloroethene	ND	0.50	**							
cis-1,2-Dichloroethene	ND	0.50	11							

Sequoia Analytical - Morgan Hill





URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported:

07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3G03012 - EPA 5035										
Blank (3G03012-BLK1)				Prepared	& Analyze	ed: 07/03/0)3			
trans-1,2-Dichloroethene	ND	0.50	ug/kg							
1,2-Dichloropropane	ИD	0.50								
1,3-Dichloropropane	ND	0.50	**							
2,2-Dichloropropane	ND	0.50	#							
1,1-Dichloropropene	ND	0.50	н							
Ethylbenzene	ND	0.50	**							
Hexachlorobutadiene	ND	0.50	а							
Isopropylbenzene	ND	0.50	ıı .							
p-Isopropyltoluene	ND	0.50	U							
Methylene chloride	ND	2.0	Ħ							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	н							
1,1,1,2-Tetrachloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50	Я							
Tetrachloroethene	ND	0.50	11							
Toluene	ND	0.50	11							
1,2,3-Trichlorobenzene	ND	0.50	11							
1,2,4-Trichlorobenzene	ND	0.50	**							
1,1,1-Trichloroethane	ND	0.50	*							
1,1,2-Trichloroethane	ND	0.50	11							
Trichloroethene	ND	0.50	47							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	11							
1,3,5-Trimethylbenzene	ND	0.50	н							
Vinyl chloride	ИD	0.50	D							
Xylenes (total)	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	5.04		'n	5.00		101	60-140			
Surrogate: Dibromofluoromethane	4.68		"	5.00		93.6	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.04		"	5.00		101	60-140			
Surrogate: Toluene-d8	4.49		*	5.00		89.8	60-140			
Surrogate: 4-Bromofluorobenzene	4.84		,,	5.00		96.8	60-140			





URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Lunt	- Onto						 	
Batch 3G03012 - EPA 5035			<u> </u>							· · ·
Laboratory Control Sample (3G03012-BS1)				& Analyze					
Benzene	9.48	0.50	ug/kg	10.0		94.8	60-140			
Methyl tert-butyl ether	9.57	0.50	**	10.0		95.7	60-140			
Chlorobenzene	9.80	0.50	"	10.0		98.0	60-140			
1,1-Dichloroethene	9.92	0.50		10.0		99.2	60-140			
Foluene	9.67	0.50	II	10.0		96.7	60-140			
Trichloroethene	10.5	0.50	"	10.0		105	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.02			5.00	·-	100	60-140			-
Surrogate: Dibromofluoromethane	4.93		"	5.00		98.6	60-140			•
Surrogate: 1,2-Dichloroethane-d4	5.02		•	5.00		100	60-140			
Surrogate: Toluene-d8	4.59		"	5.00		91.8	60-140			
Surrogate: 4-Bromofluorobenzene	4.98		"	5.00		99.6	60-140			
Laboratory Control Sample Dup (3G03012	-RSD1)			Prepared	& Analyz	ed: 07/03/	03			
Benzene	9.83	0.50	ug/kg	10.0		98.3	60-140	3.63	25	
Methyl tert-butyl ether	9.95	0.50	17	10.0		99.5	60-140	3.89	11	
Chlorobenzene	10.8	0.50	"	10.0		108	60-140	9.71	25	
1,1-Dichloroethene	10.5	0.50	"	10.0		105	60-140	5.68	25	
Toluene	10.5	0.50	11	10.0		105	60-140	8.23	25	
Trichloroethene	11.0	0.50	п	10.0		110	60-140	4.65	25	
Surrogate: 1,2-Dichloroethane-d4	5.08	<u> </u>	n	5.00		102	60-140			
Surrogate: Dibromofluoromethane	4.76		P	5.00		95.2	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.08		*	5.00		102	60-140			
Surrogate: Toluene-d8	4.65		"	5.00		93.0	60-140			
Surrogate: 4-Bromofluorobenzene	5.03		#	5.00		101	60-140			



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0628 Reported: 07/09/03 10:47

Notes and Definitions

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch

were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Page_i_ol 塞 3

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Chain of Custody Record

Project Name ARCO Station #601-712 Lewelling Boulevard, San Leandro, CA Business Unit Bp West Coast Products LLC

BP Laboratory Contract Number: 4 0 0 6 2 1 1 2 4

TAT 10 days REQUESTED DUE DATE: 06/28/03 DATE: 06/18/03

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OX-silo lime:	Temp:			
Sky Conditions:				1
Meteorological Events:				
Wind Speed:	Direction:		-	
Sky Conditions: Meteopological Events:				_

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Lab Namo: Seguoja Analytica)	BP/GEM Facility Address: 712 Lov	Palling Rouletrand San L	earder CA		(ree!, ¥200			
Lab (vario: Seguoja Analytica) Il ah Address: 865 Jaryls Drivo	Site ID No. Stallon #601	remails mentitivation out to	contro, VA	Oakland,				
	California Gioba D #:	<u> </u>		e maji EDD: Henry_Bardo				
Morgan Hill, CA	BP/GEM PM Contact: BP Glubel	Alisance Alia . Account	- Devoklo	Consulant Project No.:				
Lab PM: Latonya Peli	Address: 4 Center Point Drive, La		t byacta	Consultant Toleffor 504	iant Telefrax: 404/297-9505/297-696/2			
	LeleJFax: 714-670-5052/714-6/0		·	Consultant PM: Scott Rot	insouffend Sarientas			
Tele/Fax: 409-782-815-4/408-782-6308	TORNESS: 1 (4-010-3025) 14-010	20-00-0		invoice to: UP West Coas				
Report Type & QG Level: Normal	4		1	BP/GEM Work Release No.				
DP/GEM Account No.:	-		- 8 Danuer	1				
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Lah Address: 885 Jarvis Drive	Sile ID No.	Station #601					- 4							Oakisnd, I			
Мотрал Ній, СА	California G	lobal ID #:						. ,				e-mail EDD: Henry_Barrienies@UHSCorp.com					
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Tele/Fox: 408-782-8154/408-782-6309	Tele/Fax: 7	14-670-60525/14-670-5	359	•											rinson/i lenty Barrientos		
Report Type & OC Loyel: Normal								•							st Coast Products		
HP/GEM Account No.:	1									·~		ΒΡΊζ	EM Work	Release N	ase No:		
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Sampler's Company: UFIS Oakland								06/11/0									
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Special histractions: CAP 2002			 .											-			
G. 1 L. O. V. Dilan Van Ma	~		<u> </u>	Į.	د ه	<u> </u>	Cos	Var To	mparalu	IO AN E	in nata		4 'FIG	7 74	p Blank YesNo_X_		
Custody Seals in Place Yes No		mporature Blank Yes	<u></u>		<u> </u>	Ξ_	777	voi to		TO VILL	*****	<u>:</u>		111	BP COLBERT 2/5/92		
L "									•						APLALGREEL HAVE		

Chain of Custody Record

Project Name Business Unit

ARCO Station #801-712 Lewelling Boulevard, San Leandro, CA
Bp West Coast Products LLC

BP Laboratory Contract Number: 4 0 0 -6 2 1 1 . 2 4 TAT Joday's REQUESTED DUB DATE: 06/29/03

		3 3 Page # 01 #
On-site Time:	Մա որ։	
Olf-sile Time:	Temp:	•
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

	PIGEM Feelity No.; Station#601	Consultant: URS Oakland
Leb Namo: Seguoja Analytical BP/G	P/GEM Facility Address: 712 Lewelling Boulevard, San Leandro	CA Address: 500 12th Skeet, #200
	ite (D No. Station 860)	Oakland, CA 94607
	alilornia Global ID 8:	e-mail EDD: Henry_Bardentos@URSCorp.com
GPABPA	P/SEM PM Contact: BP Global Alliance; Alla.: Accounts Payal	ko Consultant Project No.:
	ckhoss: 4 Center Point Drive, La Palma, CA	Consultant Tele/Fax: 408-297-9585/297-6902
Tele/Fex: 408-782-8154/408-782-6308 Tele	ele/Fex: 714-670-5052/714-070-5353	Consultant PAY: Scott Robinson/Henry Barrientos
Report Type & OC Levek Normal		Involce to: (5)* West Coast Producto
nP/GEM Account No.:		BP/ISEM Work Release No:
Lab Boille Order No:	Mairix Preservatives	Requested Analysis MMF 0428
item Field Point Sample (D Time 20 00 00 00 00 00 00 00 00 00 00 00 00	Water/Liquid Sediments Afr No. of conteiners Lingreserved HeSC. HOI	Sample Foliate See
1 4 PL-10 8:25 x	× 13	X
2 D-7 8:40 X	X 14-	
3 PD-6 8145 X		x
1 1 PE-11 8:53 X		X
6 PL-13 9:10 A		
7 PL-14 9:15 X		X I I I I I I I I I I I I I I I I I I I
8 4 P1-12 9:30 X	X +918	
9 4PL-8 9:45 X	7019	
10		
Sampler's Name: ADK	Relinquished By / Ahiliation Oale	Itino Accepted By I Attitiation Date Time
Sampler's Company: URS Oakland		11300
Shiproont Date:		6/19 18.45
Shipment Method: Goirler		
Shipment Tracking No:		
Special Instructions: CAP 2002		
		Service All Wells Street Land All II
Custody Seals in Place Yes No X	Temperature Slank Yes No 🔀 Cooler Te	emperature on Receipt 4 of C Trip Blank Yes No X pg COCRER 1 215/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	BP	pual		DATE REC'D AT LAB TIME REC'D AT LAB DATE LOGGED IN:	18	3 - 45 1 <i>4</i> -63	-	Drinking Wat regulatory po Wastewater regulatory p	orposes: YES/NO for urposes: YES/NO
CIRCLE THE APPROP	RIATE RESPONSE	LAB SAMPLE#	DASH #	CLIENT ID	CONTAINER DESCRIPTION				REMARKS: CONDITION (ETC.)
1. Custody Scal(s)	Present / Assemb		• ,	D-2- U 1	(1) motal care	<u> </u>	<u> </u>	6/18/63	
	Présent) Absent*			<u> </u>				 - 	
3, Traffic Reports or Packing List:	-Present / Apsent	-		5-3	-				
4, Airbill;	Airbill / Sticker - Present / Absent			ν 5 ρ ₂ - 3				\	
5, Airbill#:				1 7		 		 	
6. Sample Labels: 7. Sample IDs:	Present Absent Listed Not Listed on Chain-of-Custody	-	**	8-5				·	-
8, Sample Condition:	intersy Broken*/			PL-9					
9. Does information on	•			b- &; .		1			
custody reports, traffic reports and sample	Yesy No*			13					
labels agree? 10, Sample received within	÷ _			12			1		
hold time: 11, Proper Preservatives	Yes No*								
nsed:	. €@\No*					1			
12. Temp Rec. at Lab: Js temp 4 1/-2°C?	7 es Y No**			ž 6,	903				
(Acceptance range for samples re **Exception (if any): Metals	equiring the mat prest) [] DFF (Direct From Field)								
or Problem COC	Martin Company of the			D, CONTACT PROJE	CT MANACED	AND A'	rach R	RCORD OF	RESOLUTION.
1. 1	• · · · · · · · · · · · · · · · · · · ·	*IICU	CLE	, CONTACT PROJE	V. I MANUALITY	7 VVI 130 664		4.	1

Sample Recolpt Log Revision 3 (03/18/03) Replaces Revision 2.3 (12/24/02)



20 June, 2003

Scott Robinson URS Corporation [Arco] 500 12th Street, Suite 100 Oakland, CA 94607

RE: ARCO #601, San Leandro, CA Sequoia Work Order: MMF0423

Enclosed are the results of analyses for samples received by the laboratory on 06/17/03 12:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sporya K. Pelt

Latonya Pelt Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-1	MMF0423-01	Water	06/17/03 09:20	06/17/03 12:24
TW-2	MMF0423-02	Water	06/17/03 09:20	06/17/03 12:24
TW-3	MMF0423-03	Water	06/17/03 09:20	06/17/03 12:24
TW-4	MMF0423-04	Water	06/17/03 09:20	06/17/03 12:24

There were no custody seals that were received with this project.



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

BTEX by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (MMF0423-01) Water	Sampled: 06/17/03 09:20	Received:	06/17/03	12:24					
Benzene	ND	5.0	ug/l	10	3F17009	06/17/03	06/17/03	EPA 8260B	
Toluene	ND	5.0	H	14	a.	H	U	11	
Ethylbenzene	ND	5.0	И	II		14	"	н	
Xylenes (total)	ND	5.0	н	11		*	4	и	
Surrogate: 1.2-Dichloroethane	-d4	96.0 %	78-	129	и	"	"	H	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

Total Metals by EPA 200 Series Methods

		L							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-2 (MMF0423-02) Water	Sampled: 06/17/03 09:20	Received:	06/17/03	12:24					
Silver	ND	0.020	mg/l	1	3F17022	06/17/03	06/18/03	EPA 200.7	
Arsenic	ND	0.10	п	li	11	n	n	11	
Cadmium	ND	0.010	н	**	IJ	Ħ	n	H	
Chromium	ND	0.010	IP.	*	Ħ	"	4	n	
Copper	ND	0.010	II)	*)t	m	н	10	
Nickel	ND	0.050	#	n	π	P	н	и	
Lead	ND	0.10)1	**	**	10	H	**	
Selenium	ND	0.10	и	n	**	19	16	н	
Zinc	ND	0.050	Ħ	н	н	н	Ħ	н	



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-2 (MMF0423-02) Water	Sampled: 06/17/03 09:20	Received:	06/17/03	12:24					
Mercury	ND	0.20	ug/l	. 1	3F18009	06/18/03	06/18/03	EPA 7470A	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Reporting Method Notes Analyzed Prepared Dilution Batch Limit Units Result TW-1 (MMF0423-01) Water Sampled: 06/17/03 09:20 Received: 06/17/03 12:24 06/17/03 **EPA 8260B** 06/17/03 3F17009 ND 1000 ue/l 10 Ethanol 200 ND tert-Butyl alcohol 290 5.0 Methyl tert-butyl ether 5.0 ND Di-isopropyl ether 5.0 Ethyl tert-butyl ether ND 5.0 ND tert-Amyl methyl ether 5.0 ND 1,2-Dichloroethane ND 5.0 1,2-Dibromoethane (EDB) 78-129 Surrogate: 1,2-Dichloroethane-d4 96.0 % 06/18/03 3F18036 06/18/03 10 5.0 ND Benzene 5.0 ND Bromobenzene ND 5.0 Bromochloromethane 5.0 ND Bromodichloromethane 5.0 Bromoform ND ND 10 Bromomethane ND 5.0 n-Butylbenzene ND 5.0 sec-Butylbenzene ND 5.0 tert-Butylbenzene 5.0 Carbon tetrachloride ND ND 5.0 Chlorobenzene ND 5.0 Chloroethane 5.0 ND Chloroform ND 5.0 Chloromethane ND 5.0 2-Chlorotoluene ND 5.0 4-Chlorotoluene ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromoethane (EDB) 5.0 Dibromomethane ND ND 10 1.2-Dibromo-3-chloropropane ND 5.0 1,2-Dichlorobenzene ND 5.0 1,3-Dichlorobenzene ND 5.0 1,4-Dichlorobenzene ND 5.0 Dichlorodifluoromethane 5.0 ND 1,1-Dichloroethane ND 5.0 1,2-Dichloroethane 5.0 ND 1.1-Dichloroethene

Sequoia Analytical - Morgan Hill

cis-1,2-Dichloroethene

ND

5.0

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-1 (MMF0423-01) Water	Sampled: 06/17/03 09:20	Received:	<u>06/17/03</u>	12:24					
trans-1,2-Dichloroethene	ND	5.0	ug/l	10	3F18036	06/18/03	06/18/03	EPA 8260B	
1,2-Dichloropropane	ND	5.0		n	н	u	Ħ	"	•
1,3-Dichloropropane	ND	5.0	"	*	**	î	v	" "	
2,2-Dichloropropane	ND	20	н	Ħ	**	**	19		
1,1-Dichloropropene	ND	5.0	"	n	19	Ħ	и	n	
Ethylbenzene	ND	5.0	H	н		И	n	"	
Hexachlorobutadiene	ND	20	*	H	19	Ħ	H	-	
Isopropylbenzene	ND	5.0	n	11	н	II.	11		:
p-Isopropyltoluene	ND	5.0	н	Ħ	н	u		*	
Methylene chloride	ND	5.0	ц	*		H	. "	"	
Naphthalene	ND	50	**	10	17		II	н	
n-Propylbenzene	ND	5.0	47	0	n	II.	N		
Styrene	ND	5.0	n	н	"	п	ш	*	
1,1,2-Tetrachloroethane	ND	5.0	**	11	11	ii	17	•	
1,1,2,2-Tetrachloroethane	ND	5.0	n	II	н	**	**	w	
Tetrachloroethene	ND	5.0	н	Ħ	ıt	Ħ	π	"	
Toluene	ND	5.0	**	•	"	*	11	"	
1,2,3-Trichlorobenzene	ND	5.0	"	11	17	u	"	н	
1,2,4-Trichlorobenzene	ND	5.0	17	н		19	н		
1,1,1-Trichloroethane	ND	5.0		n	11	п	п	**	
1,1,2-Trichloroethane	ND	5.0	14	n	"	n			
Trichloroethene	ND	5.0	н	H	**	#	ŢJ.	•	
Trichlorofluoromethane	ND	5.0	"	"		n	11	"	
1,2,3-Trichloropropane	ND	5.0		11	n	u	10	"	
1,2,4-Trimethylbenzene	ND	5.0	19	И	*	H	n	н	
1,3,5-Trimethylbenzene	ND	5.0	"	P	н	Ħ	**	u	
Vinyl chloride	ND	5.0	И	*		"	"	*	
Xylenes (total)	ND	5.0	н	a			*	# · · · · · · · · · · · · · · · · · · ·	
Surrogate: Dibromofluorometh	ane	111%	7.3	3-130	n	"	"	#	
Surrogate: 1,2-Dichloroethane-		116%	78	3-129	**	"	"	is .	•
Surrogate: Toluene-d8		106 %	8.	1-116	"	"	H	"	
Surrogate: 4-Bromofluorobenze	ene	93.2 %	7.	1-117	H	**	n	22	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4 (MMF0423-04) Water	Sampled: 06/17/03 09:20	Received:	06/17/03 1	2:24					
pH	6.96		pH Units	1	3F18021	06/17/03	06/17/03	EPA 150.1	
Phenol	ND	0.050	mg/l		3F18037	06/18/03	06/18/03	EPA 420.1	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-3 (MMF0423-03) Water	Sampled: 06/17/03 09:20	Received:	06/1 7/ 03	12:24					
Cyanide (total)	ND	0.0050	mg/l	1	3060455	06/19/03	06/19/03	EPA 335.2	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

BTEX by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting	** '.	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes		
Analyte	Result	Limit	Units	Level	Result	76KEC	Limits	KI D	D111114	. 10103		
Batch 3F17009 - EPA 5030B P/T				<u></u>								
Biank (3F17009-BLK1)	<u> </u>			Prepared	& Analyze	ed: 06/17/0)3					
Benzene	ND	0.50	ug/l									
Toluene	ND	0.50	H									
Ethylbenzene	ND	0.50	10									
(ylenes (total)	ND	0.50	II							_		
Surrogate: 1,2-Dichloroethane-d4	4.63		tr .	5.00		92.6	78-129					
Laboratory Control Sample (3F17009-BS)	1)			Prepared	& Analyz	ed: 06/17/	03					
Benzene	9.73	0.50	ug/l	10.0		97.3	78-124					
Foluene	9.87	0.50	н	10.0		98.7	78-129					
Surrogate: 1,2-Dichloroethane-d4	4.70		"	5.00		94.0	78-129					
O 44-1 C (2E17000 PC	n	Prepared & Analyzed: 06/17/03										
Laboratory Control Sample (3F17009-BS	5.52	0.50	ug/l	6.40		86.2	78-124					
Benzene Toluene	32.4	0.50	"	29.7		109	78-129					
Surrogate: 1,2-Dichloroethane-d4	4.70			5.00	<u> </u>	94.0	78-129					
	0 DCD4)			Drongrad	- 06/1 <i>7/</i> 03	Analyzeo	1: 06/18/03					
Laboratory Control Sample Dup (3F1700	9.77	0.50	ug/l	10.0	. 00/1//05	97.7	78-124	0.410	12			
Benzene		0.50	ug/1	10.0		96.1	78-129	2.67	10			
Точиепе	9.61	0.50		10.0		,0.1						
Surrogate: 1,2-Dichloroethane-d4	4.89		,,	5.00		97.8	78-129					
V. L	0_RSD2\			Prenared	: 06/1 7/ 03	Analyze	d: 06/18/03					
Laboratory Control Sample Dup (3F1700	5.76	0.50	ug/l	6.40		90.0	78-124	4.26	12			
Benzene	32.6	0.50	п п	29.7		110	78-129	0.615	10			
Toluene	34.0	0.50		25.1								
Surrogate: 1,2-Dichloroethane-d4	4.75		и	5.00		95.0	78-129					
Matrix Spike (3F17009-MS1)	Se	ource: MMF	0172-01	Prepared	I: 06/17/03	3 Analyze	d: 06/18/03					
Benzene	274	25	ug/l	320	6.0	83.8	78-124					
	1550	25	19	1480	3.5	104	78-129					

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported: 06/20/03 11:37

BTEX by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F17009 - EPA 5030B P/T										
Matrix Spike (3F17009-MS1)	Sou	rce: MMF0	172-01	Prepared:	06/17/03	Analyzed	: 06/18/03			
Surrogate: 1,2-Dichloroethane-d4	4.79		ug/l	5.00		95.8	78-129		·	
Matrix Spike Dup (3F17009-MSD1)	Sou	rce: MMF0	172-01	Prepared:	06/17/03	Analyzed	1: 06/18/03		<u>-</u>	
Benzene	290	25	ug/l	320	6.0	88.8	78-124	5.67	12	
Toluene	1640	25	ν	1480	3.5	111	78 -1 29	5.64	1 0	-
Surrogate: 1,2-Dichloroethane-d4	4.85	•	"	5.00		97.0	78-129			



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Total Metals by EPA 200 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source	O/DEC	%REC	מפפ	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Lum	140168
Batch 3F17022 - EPA 3005A										
Blank (3F17022-BLK1)				Prepared:	06/17/03	Analyzed	: 06/18/03			
Arsenic	ND	0.10	mg/l							
Cadmium	ND	0.010	**							
Chromium	ND	0.010	H							
Copper	ND	0.010	н							
Lead	ND	0.10	el							
Nickel	ND	0.050	ŧ							
Selenium	ND	0.10	H							
Silver	ND	0.020	"							
Zinc	ND	0.050	II							
Laboratory Control Sample (3F17022-BS1)	,			Prepared:	06/17/03	Analyzed	1: 06/18/03			
Arsenic	1.03	0.10	mg/l	1.00		103	84-127			
Cadmium	0,993	0.010	17	1.00		99.3	89-119			
Chromium	1.01	0.010	*	1.00		101	91-118			
Copper	1.00	0.010	,,	1.00		100	88-117			
Lead	1.01	0.10	n	1.00		101	88-121			
Nickel	1.02	0.050	п	1.00		102	91-119			
Selenium	0.954	0.10	**	1.00		95.4	87-124			
Silver	0.997	0.020	*	1.00		99.7	90-115			
Zinc	1.01	0.050	#	1.00		101	91-120			
Matrix Spike (3F17022-MS1)	S	ource: MMF()423-02	Prepared	: 06/17/03	Analyzed	1: 06/18/03			
Arsenic	1.12	0.10	mg/l	1.00	ND	112	70-130			
Cadmium	1.04	0.010	D	1.00	ND	104	70-130			
Chromium	1.07	0.010	11	1.00	ИD	107	70-130			
Copper	1.06	0.010	70	1.00	ND	106	70-130			
Lead	1.07	0.10	11	1.00	ND	107	70-130			
Nickel	1.07	0.050	19	1.00	ND	107	70-130			
Selenium	0.996	0.10	4	1,00	NĎ	99.6	70-130			
Silver	1.06	0.020	11	1.00	ND	106	70-130			
Zinc	1.07	0.050	#	1,00	0.0083	106	70-130			



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Spike

Source

Project Number: N/P

Reporting

Project Manager: Scott Robinson

MMF0423 Reported:

RPD

%REC

06/20/03 11:37

Total Metals by EPA 200 Series Methods - Quality Control

Sequoia Analytical	l - Morgan Hill
--------------------	-----------------

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3F17022 - EPA 3005A										
Matrix Spike Dup (3F17022-MSD1)	Sou	rce: MMF0	423-02	Prepared:	06/17/03	Analyzed	: 06/18/03			
Arsenic	1.04	0.10	mg/l	1.00	ND	104	70-130	7.41	20	
Cadmium	0.980	0.010	41	1.00	ND	98.0	70-130	5.94	20	
Chromium	1.00	0.010	"	1.00	ND	100	70-130	6.76	20	
Copper	0.991	0.010	•	1.00	ND	99.1	70-130	6.73	20	
Lead Lead	0.991	0.10	,,	1.00	ND	99.1	70-130	7.67	20	
Nickel	1.00	0.050	н	1.00	ND	100	70-130	6.76	20	
Selenium	0.923	0.10	н	1.00	ND	92.3	70-130	7.61	20	
Silver	0.992	0.020	"	1.00	ND	99.2	70-130	6.63	20	
Zinc	1.00	0.050	•	1.00	0.0083	99.2	70-130	6.76	20	



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			Prepared	& Analyze	ed: 06/18/0	03	_		
ND	0.20	ug/l							
			Prepared .	& Analyzo	ed: 06/18/9				
8.43	0.20	u g/]	8.00		105	88-110			
So	urce: MMF0	423-02	Prepared	& Analyze	ed: 06/18/0	03			Q-LJ
8.81	0,20	ug/l	8.00	ND	110	88-110			
So	urce: MMF0	423-02	Prepared	& Analyz	ed: 06/18/	03			
8.53	0.20	ug/l	8.00	ND	107	88-110	3.23	10	
	ND 8.43 So 8.81	ND	Result Limit Units ND 0.20 ug/l 8.43 0.20 ug/l Source: MMF0423-02 8.81 0.20 ug/l Source: MMF0423-02	Prepared	Prepared & Analyze	Prepared & Analyzed: 06/18/6 ND	Result Limit Units Level Result %REC Limits	Result Limit Units Level Result %REC Limits RPD	Result Limit Units Level Result %REC Limits RPD Limit



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

	1 7114	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Ontes	TEAGI	Result	701000	Dimite			
Batch 3F17009 - EPA 5030B P/T										
Blank (3F17009-BLK1)		<u></u> ,,		Prepared o	& Analyze	d: 06/17/0)3			
Ethanol	ND	100	ug/l							
ert-Butyl alcohol	ND	20								
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	*							
Ethyl tert-butyl ether	ND	0.50	n							
ert-Amyl methyl ether	ND	0.50	и							
1,2-Dichloroethane	ND	0.50	н							
1,2-Dibromoethane (EDB)	ND	0.50	H							
Surrogate: 1,2-Dichloroethane-d4	4.63	<u> </u>	и	5.00		92.6	78-129			
Laboratory Control Sample (3F17009-	-BS1)			Prepared	& Analyz	ed: 06/ <u>17/</u>	03			
Methyl tert-butyl ether	8.30	0.50	ug/l	10.0		83.0	63-137			
Surrogate: 1,2-Dichloroethane-d4	4.70	- .	"	5.00		94.0	78-129			
Laboratory Control Sample (3F17009	-BS2)			Prepared	& Analyz	ed: 06/17/	03			
Methyl tert-butyl ether	8.25	0.50	ug/l	9.92	<u>-</u>	83.2	63-137			
Surrogate: 1,2-Dichloroethane-d4	4.70		"	5.00		94.0	78-129			•••
Laboratory Control Sample Dup (3F1	7009-BSD1)			Prepared:	06/17/03	Analyzed	l: 06/18/03			·
Methyl tert-butyl ether	8.82	0.50	ug/l	10.0		88.2	63-137	6.07	13	
Surrogate: 1,2-Dichloroethane-d4	4.89	· · · · · · · · · · · · · · · · · · ·	н	5.00		97.8	78-129			
Laboratory Control Sample Dup (3F1	7009-BSD2)			Prepared	: 06/17/03	Analyzeg	1: 06/18/03			
Methyl tert-butyl ether	8.02	0.50	ug/l	9.92		80.8	63-137	2.83	13	
Surrogate: 1,2-Dichloroethane-d4	4.75		n	5.00		95.0	78-129			
Matrix Spike (3F17009-MS1)	So	urce: MMF	0172-01	Prepared:	: 06/1 <u>7/0</u> 3	Analyzeo	i: 06/18/03			
Methyl tert-butyl ether	1230	25	ug/l	496	840	78.6	63-137			



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Sequola Analytical - 11101 gail 1311											
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 3F17009 - EPA 5030B P/T											
Matrix Spike (3F17009-MS1)	So	urce: MMF0	172-01	Prepared:	06/17/03	Analyzed	: 06/18/03				
			ug/l	5.00		95.8	78-129				
Surrogate: 1,2-Dichloroethane-d4	4.79		ug/i	5.00							
Matrix Spike Dup (3F17009-MSD1)	50	urce: MMF0	172-01	Prenared:	06/17/03	Analyzed	: 06/18/03				
Methyl tert-butyl ether	1240	25	ug/l	496	840	80.6	63-137	0.810	13	•	
wienny tert-busyr criter			J						,	· .	
Surrogate: 1,2-Dichloroethane-d4	4.85		"	5.00		97.0	78-129				
Batch 3F18036 - EPA 5030B P/T					<u></u>						
Blank (3F18036-BLK1)				Prepared	& Analyz	zed: 06/18/	03				
Benzene	ND	0.50	ug/l								
Bromobenzene	ND	0.50	•								
Bromochloromethane	NĎ	0.50	н								
Bromodichloromethane	ND	0.50	II .								
Bromoform	ND	0.50	"								
Bromomethane	ND	1.0	10								
n-Butylbenzene	ND	0.50									
sec-Butylbenzene	ND	0.50	11								
tert-Butylbenzene	ИN	0.50	n								
Carbon tetrachloride	ND	0.50	н								
Chlorobenzene	ND	0.50	**								
Chloroethane	ND	0.50	11								
Chloroform	ND	0.50	**								
Chloromethane	ND	0.50	н								
2-Chlorotoluene	ND	0.50	н								
4-Chlorotoluene	ND	0.50	н								
Dibromochloromethane	ND	0.50	10								
1,2-Dibromoethane (EDB)	ND	0.50	n								
Dibromomethane	ND	0.50	11								
1,2-Dibromo-3-chloropropane	NĐ	1.0	14								
1,2-Dichlorobenzene	ND	0.50	#								
1,3-Dichlorobenzene	ND	0.50	**								
1.4-Dichlorobenzene	ND	0.50	l t								
Dichlorodifluoromethane	ND	0.50									
1,1-Dichloroethane	ND	0.50	44								

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F18036 - EPA 5030B P/T									, 	<u> </u>
Blank (3F18036-BLK1)				Prepared	& Analyze	ed: 06/18/0)3			
1,2-Dichloroethane	ND	0.50	ug/l			٠				
1,1-Dichloroethene	ND	0.50	11							
cis-1,2-Dichloroethene	ND	0.50	H							
trans-1,2-Dichloroethene	ND	0.50	н .							
1,2-Dichloropropane	ND	0.50	н							
1,3-Dichloropropane	ND	0.50	**							
2,2-Dichloropropane	ND	2.0	**							-
1,1-Dichloropropene	ND	0.50	Ħ							
Ethylbenzene	ND	0.50	**							
Hexachlorobutadiene	ND	2.0	41							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0,50	н							
Methylene chloride	ND	0.50	н							
Naphthalene	ND	5.0	¥			٠.				
n-Propylbenzene	ND	0.50	•							
Styrene	ND	0.50	It							
1,1,1,2-Tetrachloroethane	ND	0.50	*							
1,1,2,2-Tetrachloroethane	ND	0.50	*							
Tetrachloroethene	ND	0.50	19							
Toluene	ND	0.50	ıt							
1,2,3-Trichlorobenzene	ND	0.50	н							
1,2,4-Trichlorobenzene	ND	0.50	,,							
1,1,1-Trichloroethane	ND	0.50	ti							
1,1,2-Trichloroethane	NĎ	0.50	#							
Trichloroethene	ND	0.50	11							
Trichlorofluoromethane	ND	0.50	11							
1,2,3-Trichloropropane	ND	0.50	н							
1,2,4-Trimethylbenzene	ND	0.50	н							
1,3,5-Trimethylbenzene	ND	0.50	H							
Vinyl chloride	ND	0.50	**							
Xylenes (total)	ND	0.50	*							
Wateres (rotar)		0.50			-					
Surrogate: Dibromofluoromethane	5.34		"	5.00		107	73-130			
Surrogate: 1,2-Dichloroethane-d4	5.40		,,	5.00		108	78-129			
Surrogate: Toluene-d8	5.19		н	5.00		104	81-116			
Surrogate: 4-Bromofluorobenzene	4.63		#	5.00		92.6	71-117			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 3F18036 - EPA 5030B P/T

Blank (3F18036-BLK1) Prepared & Analyzed: 06/18/03



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F18021 - General Preparation			 · · ·							<u>. </u>
Duplicate (3F18021-DUP1)	So	urce: MMF	0423-04	Prepared	& Analyz	ed: 06/17/	03			
рН	6.96	2.00	pH Units		6.96			0.00	20	٠
Batch 3F18037 - General Preparation										···
Blank (3F18037-BLK1)				Prepared	& Analyz	ed: 06/ <u>18/</u>	03			
Phenol	ND	0.050	mg/l							
Laboratory Control Sample (3F18037-BS1)				Prepared	& Analyz	ed: 06/18/	03			
Phenol	0.488	0.050	mg/l	0.500		97.6	84-117			
Matrix Spike (3F18037-MS1)	Se	ource: MMF	0423-04	Prepared	& Analyz	ed: 06/18/	03	 		
Phenol	0.491	0.050	mg/l	0.500	ND	98.2	84-117			
Matrix Spike Dup (3F18037-MSD1)	Se	ource: MMF	0423-04	Prepared	& Analyz	ed: 06/18	03			
Phenol	0.504	0.050		0.500	ND	101	84-117	2.61	7	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Petaluma

		Reporting	•••	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	76KEC	Dillitra	KID		
Batch 3060455 - General Preparation	·									
Blank (3060455-BLK1)				Prepared	& Analyze	ed: 06/19/	03		 	
Cyanide (total)	0.0119	0.0050	mg/l							÷
Blank (3060455-BLK2)				Prepared	& Analyz	ed: 06/19/	03			<u>.</u>
Cyanide (total)	ND	0.0050	mg/l							
Laboratory Control Sample (3060455-BS1)				Prepared	& Analyz	ed: 06/19/	03			
Cyanide (total)	0.170	0.0050	mg/l	0.200		85	80-120			
Laboratory Control Sample (3060455-BS2)				Prepared	& Analyz	ed: 06/19/	03			
Cyanide (total)	0.175	0.0050	mg/l	0.200		88	80-120			
Matrix Spike (3060455-MS1)	So	ource: P3061	11-0 <u>1</u>	Prepared	& Analyz	ed: 06/19/	03			····
Cyanide (total)	0.195	0.0050	mg/l	0.204	ND	96	75-125			
Matrix Spike Dup (3060455-MSD1)	Se	ource: P3061	11-01	Prepared	& Analyz	ed: 06/19/	03			
Cyanide (total)	0.196	0.0050	mg/l	0.204	ND	96	75-125	0.5	20	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Scott Robinson

MMF0423 Reported:

06/20/03 11:37

Notes and Definitions

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

	bp
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SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	URS MMF.	423		DATE REC'D AT LAB TIME REC'D AT LAB DATE LOGGED IN:		9 2y 93		Drinking wa regulatory p Wastowaicr regulatory p	arpases: YBS (NO) for
CIRCLE THE APPR	OPRVATE RESPONSE	LAB SAMPLE#	DASH #	CLIENT ID	CONTAINER DESCRIPTION		SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (FIC.)
1. Custody Seal(s)	Present / AbscirD-, Intact / Broken*	10 20	10	- TW-1 1 TW-2	3) Voac (2-) 11 poly	#W.	L-	6/17/0	> '
2. Chain-of-Custody 3. Traffic Reports or	Present Absent*	05		7W-3 7W-4	17 ILPOUS DUPERK	/\@0#		<i>b</i>	Preserve with Hz SD4
Packing List: 4. Airbill:	Present Absent Airbill / Sticker Present / Absent							•	
S. Airbill#: — 6. Sample Labels:	Přesent Absent			•	-				
7. Sample Da;	Listed / Not Listed on Chain-of-Custody		- :			-			
8. Sample Condition:	Leaking*			-					
9. Does information on custody reports, traffic reports and sample	_	-	·		6) 17	3			•
labels agree? 10. Sample received within hold time:	(Pgs / No*					-			
1], Proper Preservatives used:	fes/No*								
12. Temp Rec. at Lab: Is fomp 44/-2°C7	Yes (NOT)								<u>-</u>
(Acceptance range for sample **Exception (if any): Met- or Problem COC	als / DIF (Direct From Pista)		2000	, CONTACT PROJE		Victoria de la compansión de la compansi			

Sample Receipt Log Revision 3 (03/18/03) Replaces Revision 2.3 (12/24/02) Effective 03/18/03

Page ____of___



30 June, 2003

Henry Barrientos URS Corporation [Arco] 500 12th Street, Suite 100 Oakland, CA 94607

RE: ARCO #601, San Leandro, CA Sequoia Work Order: MMF0629

Enclosed are the results of analyses for samples received by the laboratory on 06/24/03 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jatonya K. Palt

Latonya Pelt Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
601	MMF0629-01	Soîl	06/24/03 13:31	06/24/03 16:15

There were no custody seals that were received with this project.



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported:

06/30/03 18:26

Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
601 (MMF0629-01) Soil	Sampled: 06/24/03 13:31	Received: 06/2	4/03 16:1	5					
Lead	17	5.0	mg/kg	1	3F25011	06/25/03	06/25/03	EPA 6010B	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte			Reporting	,				-		
Berizene	Analyte	Result	, -	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene ND 2.0	601 (MMF0629-01) Soil Sam	pled: 06/24/03 13:31	Received: 06/2	4/03 16:1	5					
Bromochoromethane	Benzene	2.6	2.0	ug/kg	4.1	3F24047		06/25/03	=	
Bromotichoromethane ND 2.0	Bromobenzene	ND	2.0	п	11	Ħ	И	10	И	
Bromoform ND	Bromochloromethane	ND	2.0	u	II	n	H	11	II	
Bromomethane	Bromodichloromethane	ND	2.0	Ħ	11	77	н		и	
Bromomethane	Bromoform	ND	2.0	H	ji .	n	II	u u	И	O-12
n-Butylbenzene	Bromomethane	ND	8.2	H	10		n	и	и	
sec-Butylbenzene		5.9	2.0	**		**	н	H	и	
tert-Butylbenzene	sec-Butylbenzene	2.0	2.0	H.	н	**	н	n	н	
Carbon tetrachloride ND 2.0 ND 2.0 ND 2.0 ND 3.2 ND 3.3 ND 3.2 ND 3.3 ND 3.2 ND 3.3 ND 3.0 tert-Butylbenzene	ND	2.0	"	н	"	u	ij	n		
Chloroehane ND 8.2 """""""""""""""""""""""""""""""""	<u>=</u>	ND	2.0	**	н	"	n	н	II	
Chloroemane	Chlorobenzene	ND	2.0	**	н	11	II	н	íi.	
Chlorototim Chloromethane ND 20 " " " " " " " " " " " " " " " " " "	Chloroethane	ND	8.2	11	u					
Chlorotoluene	Chloroform	ND	2.0	11	N	H	Ħ	н	н	
2-Chiorotoluene ND 2.0 " " " " " " " " " " " " " " " " " " "	Chloromethane	ND	20	н	Ħ	II	\$T	H	п	
A-Chlorotoluene	2-Chlorotoluene	ND	2.0	IT	11	II .	**	H	"	
1,2-Dibromoethane (EDB) ND 2,0	4-Chlorotoluene	ND	2.0	Pr	47	H	v	4	ii.	
1,2-Dibromoethane EDB ND 2.0	Dibromochloromethane	ND	2.0	н .	**	ħ	v	#	н	
1,2-Dichloropropane	1,2-Dibromoethane (EDB)	ND	2.0	*	u	**	ч	**	**	
1,2-Dichlorobenzene	Dibromomethane	ND	2.0		**	H	ч	11	H	
1,2-Dichlorobenzene ND 2.0 " " " " " " " " " " " " " " " " " " "	1,2-Dibromo-3-chloropropane	ND	8.2		n	"	n	**	"	O-12a
1,4-Dichlorobenzene ND 2.0 " " " " " " " " " " " " " " " " " " "	1,2-Dichlorobenzene	ND	2.0	a	Ħ		п	Ħ	"	
1,4-Dichlorodenzene	1,3-Dichlorobenzene	ND	2.0	11	Ħ	u	Ħ	"	•	
Dichlorodifilitoromethane ND 2.0 " <th< td=""><td>1,4-Dichlorobenzene</td><td>ND</td><td>2.0</td><td>н</td><td>π</td><td></td><td>p</td><td>*</td><td>11</td><td></td></th<>	1,4-Dichlorobenzene	ND	2.0	н	π		p	*	11	
1,1-Dichloroethane ND 2.0 " " " " " " " " " " " " " " " " " " "	Dichlorodifluoromethane	ND	2.0	16		10	**	11	II .	
1,1-Dichloroethane ND 2.0 """"""""""""""""""""""""""""""""""""	1,1-Dichloroethane	ND	2.0	19	-	•	n	Ħ	**	
1,1-Dichloroethene ND 2.0 "	1,2-Dichloroethane	ND	2.0	19	•	10	**	n	11	
trans-I,2-Dichloroethene ND 2.0 " " " " " " " " " " " " " " " " " " "		ND	2.0	и .		11*	41	n	n	
trans-1,2-Dichloropethene ND 2.0 " <th< td=""><td>cis-1,2-Dichloroethene</td><td>ND</td><td>2.0</td><td>H</td><td>Ħ</td><td>Ħ</td><td>•</td><td>n</td><td>11</td><td></td></th<>	cis-1,2-Dichloroethene	ND	2.0	H	Ħ	Ħ	•	n	11	
1,2-Dichloropropane ND 2.0 " <td>trans-1,2-Dichloroethene</td> <td>ND</td> <td>2.0</td> <td>н</td> <td>*</td> <td>*</td> <td>•</td> <td>n</td> <td>10</td> <td></td>	trans-1,2-Dichloroethene	ND	2.0	н	*	*	•	n	10	
1,3-Dichloropropane ND 2.0 " <td>1,2-Dichloropropane</td> <td>ND</td> <td>2.0</td> <td>н</td> <td>11</td> <td>*</td> <td>**</td> <td></td> <td>w</td> <td></td>	1,2-Dichloropropane	ND	2.0	н	11	*	**		w	
2,2-Dichloropropane ND 2.0 " <td>• •</td> <td>ND</td> <td>2.0</td> <td>п</td> <td>Ħ</td> <td></td> <td>41</td> <td>n</td> <td>"</td> <td></td>	• •	ND	2.0	п	Ħ		41	n	"	
1,1-Dichloropropene ND 2.0 " <td>• •</td> <td>ND</td> <td>2.0</td> <td>II</td> <td></td> <td>u</td> <td>11</td> <td>*</td> <td>n</td> <td></td>	• •	ND	2.0	II		u	11	*	n	
Ethylbenzene 7.0 2.0 "		ND	2.0	ii	п	"	H	н	17	
Hexachlorobutadiene ND 2.0 " " " " " " " " " " Isopropylbenzene 5.2 2.0 " " " " " " " " " " " " " " " " " " "		7.0	2.0	ti .	n	"	н	H	n	
Isopropylbenzene 5.2 2.0 " " " " " " " " " p-Isopropyltoluene ND 2.0 " " " " " " " " " " " " " " " " " " "	*	ND	2.0	H	n		n	. #	u	
p-Isopropyltoluene ND 2.0 " " " " "				H	n	11	и			
en e		ND	2.0	Ħ	н	"	h	11		
	Methylene chloride	ND	8.2	**	n	11	n	n	11	

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
601 (MMF0629-01) Soil	Sampled: 06/24/03 13:31	Received: 06/2	4/03 16	:15					
Naphthalene	2.0	2.0	ug/kg	4.1	3F24047	06/24/03	06/25/03	EPA 8260B	
n-Propylbenzene	21	2.0	н	н	**	¥	н	**	•
Styrene	ND	2.0	H		11	₩	и	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	**	**	*	И	**	
1,1,2,2-Tetrachloroethane	ND	2.0	"	**	19	п	H	v	
Tetrachloroethene	ND	2.0		**	II	P	н	a a	
Toluene	ND	2.0	,,	"	19	o	u	**	
1,2,3-Trichlorobenzene	ND	2.0	11	#	н		ц	#	
1,2,4-Trichlorobenzene	ND	2.0	11	38	11		Н	11	
1,1,1-Trichloroethane	ND	2.0	10	u,	н	· ·	H	4	
1,1,2-Trichloroethane	ND	2.0	R	1¢	н	u,	U	и	
Trichloroethene	ND	2.0	ır	10	н	ď	n	41	
Trichlorofluoromethane	ND	2.0	IF	H	н	"	II	41	
1,2,3-Trichloropropane	ND	2.0	и	ıt	Ø	и	н	15	O-121
1,2,4-Trimethylbenzene	45	2.0	17	n	н	"	fr	и	
1,3,5-Trimethylbenzene	12	2.0	67		H	"	н	14	
Vinyl chloride	ND	2.0	•	*	н	н	H	н	
Xylenes (total)	26	2.0	*	**	"	н		n .	
Surrogate: Dibromofluoron	nethane	102 %	6	0-140	H	,,	29	n	
Surrogate: 1,2-Dichloroeth	ane-d4	110 %	6	0-140	"	"	21	"	
Surrogate: Toluene-d8		95.6 %		0-140	"	**	"	,,	
Surrogate: 4-Bromofluorob		95.4 %		0-140	"	н	rr .	P	
Gasoline Range Organics (C	C6-C10) ND	350	**	3.5	3F30001	06/30/03	06/30/03	н	
Surrogate: 1,2-Dichloroeth	ane-d4	111 %	6	0-140	n	н	rr	"	
Ethanol	ND	160	н	4.1	3F24047	06/24/03	06/25/03	И	
tert-Butyl alcohol	ND	82	"	11	#	н	**	И	
Methyl tert-butyl ether	ND	2.0	n	10	41	Ħ	**	11	
Di-isopropyl ether	ND	2.0	ĮI.	11	#	*	н	H	
Ethyl tert-butyl ether	ND	2.0	11	и	*	11	a	D	
tert-Amyl methyl ether	ND	2.0	H	и	P	n	"	n	
1,2-Dichloroethane	ND	2.0	n	H	*	n	#	H	
1,2-Dibromoethane (EDB)	ND	2.0	n	н		"	n	Н	
Surrogate: 1,2-Dichloroeth	ane-d4	110 %	6	0-140	"	"	m m	п	



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F25011 - EPA 3050B										
Blank (3F25011-BLK1)	Prepared & Analyzed: 06/25/03									
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (3F25011-BS1)					Prepared & Analyzed: 06/25/03					
Lead	51.9	5.0	mg/kg	50.0		104	76-117			·
Matrix Spike (3F25011-MS1)	Source: MMF0629-01			Prepared & Analyzed: 06/25/03						
Lead	75.6	5.0	mg/kg	50.0	17	117	76-117			
Matrix Spike Dup (3F25011-MSD1)	atrix Spike Dup (3F25011-MSD1) Source: MMF0629-01			Prepared & Analyzed: 06/25/03						
Lead	60.7	5.0	mg/kg	50.0	17	87.4	76-117	21.9	20	QM-0"



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

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Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F24047 - EPA 5035										
Blank (3F24047-BLK1)				Prepared:	06/24/03	Analyzed	: 06/25/03			
Benzene	ND	0.50	ug/kg							
Ethanol	ND	40	н							
Bromobenzene	ND	0.50	II .							
tert-Butyl alcohol	ND	20	н							
Bromochloromethane	ND	0.50	п							
Methyl tert-butyl ether	ND	0.50	H							
Bromodichloromethane	ND	0.50	n							
Di-isopropyl ether	ND	0.50	"							
Bromoform	ND	0.50	"							O-12
Ethyl tert-butyl ether	ND	0.50	ti							
Bromomethane	ND	2.0	n							
tert-Amyl methyl ether	ND	0.50	H							
1,2-Dichloroethane	ND	0.50	н							
n-Butylbenzene	ND	0.50	H							
1,2-Dibromoethane (EDB)	ND	0.50	н							
sec-Butylbenzene	ND	0.50	H							
tert-Butylbenzene	ND	0.50	**							
Carbon tetrachloride	ND	0.50	87							
Chlorobenzene	ND	0.50	Ħ							
Chloroethane	ND	2.0	**							
Chloroform	ND	0.50	*1							
Chloromethane	ND	5.0	**							
2-Chlorotoluene	ND	0.50	4							
4-Chlorotoluene	ND	0.50	Ħ							
Dibromochloromethane	ND	0.50	**							
1,2-Dibromoethane (EDB)	ND	0.50	**							
Dibromomethane	ND	0.50	ŧ							
1,2-Dibromo-3-chloropropane	ND	2.0	17							O-12a
1,2-Dichlorobenzene	ND	0.50	19							
1,3-Dichlorobenzene	ND	0.50	n							
1,4-Dichlorobenzene	ND	0.50	11							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	p							
1,2-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ИD	0.50	n							
cis-1,2-Dichloroethene	ND	0.50	u							

Sequoia Analytical - Morgan Hill

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URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F24047 - EPA 5035										
Blank (3F24047-BLK1)				Prepared:	06/24/03	Analyzed	06/25/03			
trans-1,2-Dichloroethene	ND	0.50	ug/kg							
1,2-Dichloropropane	ND	0.50	10							
1,3-Dichloropropane	ND	0.50	и							
2,2-Dichloropropane	ND	0.50	n							
1,1-Dichloropropene	ND	0.50	п							
Ethylbenzene	ND	0.50	н							
Hexachlorobutadiene	ND	0.50	н							
Isopropylbenzene	ND	0.50	н							
p-Isopropyltoluene	ND	0.50	н							٠
Methylene chloride	ND	2.0	M							
Naphthalene	ND	0.50	н							
n-Propylbenzene	ND	0.50	H							
Styrene	ND	0.50	п							•
1,1,1,2-Tetrachloroethane	ND	0.50	11							
1,1,2,2-Tetrachloroethane	ND	0.50	*							
Tetrachloroethene	ND	0.50	#							
Toluene	ND	0.50	*							
1,2,3-Trichlorobenzene	ND	0.50	11							
1,2,4-Trichlorobenzene	ND	0.50	•							
1,1,1-Trichloroethane	ND	0.50								•
1,1,2-Trichloroethane	ND	0.50	10							
Trichloroethene	ND	0.50	*							
Trichlorofluoromethane	ND	0.50	u .							
1,2,3-Trichloropropane	ND	0.50	n							0-12
1,2,4-Trimethylbenzene	ND	0.50	**							
1,3,5-Trimethylbenzene	ND	0.50	n							
Vinyl chloride	ND	0.50	π							
Xylenes (total)	ND	0.50	TF							
Surrogate: 1,2-Dichloroethane-d4	5.86		,,	5.00		117	60-140	<u></u>		
Surrogate: Dibromofluoromethane	5.11		"	5.00		102	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.86		H	5.00		117	60-140			
Surrogate: Toluene-d8	4.75		"	5.00		95.0	60-140			
Surrogate: 4-Bromofluorobenzene	4.82		,,	5.00		96.4	60-140			



URS Corporation [Arcol 500 12th Street, Suite 100 Oakland CA, 94607

Project: ARCO #601, San Leandro, CA

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Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

9.06 10.8 9.82 10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50 0.50 0.50	Units ug/kg	Prepared 10.0 10.0 10.0 10.0 10.0 5.00 5.00 5.00	Result	%REC 90.6 108 98.2 104 93.1 106	60-140 60-140 60-140 60-140 60-140 60-140 60-140 60-140	RPD	Limit	Notes
10.8 9.82 10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 10.0 10.0 10.0 10.0 5.00 5.00	& Analyze	90.6 108 98.2 104 93.1 106	60-140 60-140 60-140 60-140 60-140 60-140 60-140			
10.8 9.82 10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 10.0 10.0 10.0 10.0 5.00 5.00	& Analyze	90.6 108 98.2 104 93.1 106	60-140 60-140 60-140 60-140 60-140 60-140 60-140			·
10.8 9.82 10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50 0.50 0.50	11 11 11 11 11 11 11 11 11 11 11 11 11	10.0 10.0 10.0 10.0 10.0 10.0 5.00 5.00		108 98.2 104 93.1 106	60-140 60-140 60-140 60-140 60-140 60-140			
9.82 10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50 0.50	# # # # # # # # # # # # # # # # # # #	10.0 10.0 10.0 10.0 5.00 5.00 5.00 5.00		98.2 104 93.1 106	60-140 60-140 60-140 60-140 60-140			
10.4 9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50 0.50 0.50	11 10 17 17	10.0 10.0 10.0 5.00 5.00 5.00 5.00		104 93.1 106 116 108	60-140 60-140 60-140 60-140			
9.31 10.6 5.79 5.41 5.79 4.86 5.19	0.50	n n n	5.00 5.00 5.00 5.00 5.00		93.1 106 116 108	60-140 60-140 60-140 60-140			
5.79 5.41 5.79 4.86 5.19	0.50	" " " " " " " " " " " " " " " " " " " "	5.00 5.00 5.00 5.00		106 116 108	60-140 60-140 60-140			
5.79 5.41 5.79 4.86 5.19		" " "	5.00 5.00 5.00 5.00		116 108	60-140 60-140			
5.41 5.79 4.86 5.19	MARCA MARCA	" "	5.00 5.00 5.00		108	60-140			
5.79 4.86 5.19	DUMOS MANTO	"	5.00 5.00						
5.79 4.86 5.19	Dumana Beberry	"	5.00		116	60-140			
4.86 5.19	numana Babatis								
5.19	ourses being er	"	5.00		97.2	60-140			
Se	numana Babarra				104	60-140			
Se		.can 01	. .	0. 41	- 3- 0 <i>6 i</i> 0 4 //	12			,
				& Analyze		60-140			
45.1	2.5	ug/kg "	50.0	ND	90.2				
51.8	2.5	"	50.0	ND	104	60-140			
47.0	2.5		50.0	ND	94.0	60-140			
53.4	2.5	11	50.0	ND	107	60-140			
45.7	2.5	*	50.0	ND	91.4	60-140			
53.4	2.5	"	50.0	ND	107	60-140			
5.22		,,	5.00		104	60-140			
5.13		"	5.00		103	60-140			
5.22		н	5.00		104	60-140			
4.68		n	5.00		93.6	60-140			
4.80		H	5.00		96.0	60-140			
S	ource: MMF()630-01	Prenared	& Analyz	ed: 06/24/	03			٠
40.9	2,3			ND	87.6	60-140	9.77	25	
		"9"				60-140	4.14	25	
		P		ND		60-140	10.8	25	
		ır		-			13.6	25	
						60-140	10.8	25	
	2.3	*	46.7	ND	106	60-140	7.38	25	
	5.13 5.22 4.68 4.80	5.13 5.22 4.68 4.80 Source: MMF(40.9 2.3 49.7 2.3 42.2 2.3 46.6 2.3 41.0 2.3	5.13 " 5.22 " 4.68 " 4.80 " Source: MMF0630-01 40.9 2.3 ug/kg 49.7 2.3 " 42.2 2.3 " 46.6 2.3 " 41.0 2.3 "	5.13 " 5.00 5.22 " 5.00 4.68 " 5.00 4.80 " 5.00 Source: MMF0630-01 Prepared 40.9 2.3 ug/kg 46.7 49.7 2.3 " 46.7 42.2 2.3 " 46.7 46.6 2.3 " 46.7 41.0 2.3 " 46.7	5.13 " 5.00 5.22 " 5.00 4.68 " 5.00 4.80 " 5.00 Source: MMF0630-01 Prepared & Analyz 40.9 2.3 ug/kg 46.7 ND 49.7 2.3 " 46.7 ND 42.2 2.3 " 46.7 ND 46.6 2.3 " 46.7 ND 41.0 2.3 " 46.7 ND	5.13 " 5.00 103 5.22 " 5.00 104 4.68 " 5.00 93.6 4.80 " 5.00 96.0 Source: MMF0630-01 Prepared & Analyzed: 06/24/4 40.9 2.3 ug/kg 46.7 ND 87.6 49.7 2.3 " 46.7 ND 106 42.2 2.3 " 46.7 ND 90.4 46.6 2.3 " 46.7 ND 99.8 41.0 2.3 " 46.7 ND 87.8	5.13 " 5.00 103 60-140 5.22 " 5.00 104 60-140 4.68 " 5.00 93.6 60-140 4.80 " 5.00 96.0 60-140 Source: MMF0630-01 Prepared & Analyzed: 06/24/03 40.9 2.3 ug/kg 46.7 ND 87.6 60-140 49.7 2.3 " 46.7 ND 106 60-140 42.2 2.3 " 46.7 ND 90.4 60-140 46.6 2.3 " 46.7 ND 99.8 60-140 41.0 2.3 " 46.7 ND 87.8 60-140	5.13 " 5.00 103 60-140 5.22 " 5.00 104 60-140 4.68 " 5.00 93.6 60-140 4.80 " 5.00 96.0 60-140 Source: MMF0630-01 Prepared & Analyzed: 06/24/03 40.9 2.3 ug/kg 46.7 ND 87.6 60-140 9.77 49.7 2.3 " 46.7 ND 106 60-140 4.14 42.2 2.3 " 46.7 ND 90.4 60-140 10.8 46.6 2.3 " 46.7 ND 99.8 60-140 13.6 41.0 2.3 " 46.7 ND 87.8 60-140 10.8	5.13 " 5.00 103 60-140 5.22 " 5.00 104 60-140 4.68 " 5.00 93.6 60-140 4.80 " 5.00 96.0 60-140 Source: MMF0630-01 Prepared & Analyzed: 06/24/03 40.9 2.3 ug/kg 46.7 ND 87.6 60-140 9.77 25 49.7 2.3 " 46.7 ND 106 60-140 4.14 25 42.2 2.3 " 46.7 ND 90.4 60-140 10.8 25 46.6 2.3 " 46.7 ND 99.8 60-140 13.6 25 41.0 2.3 " 46.7 ND 87.8 60-140 10.8 25



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

Project Manager: Henry Barrientos

MMF0629 Reported: 06/30/03 18:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F24047 - EPA 5035										
Matrix Spike Dup (3F24047-MSD1)	So	urce: MMF0	630-01	Prepared	& Analyze	d: 06/24/0)3	-		
Surrogate: 1,2-Dickloroethane-d4	5.65		ug/kg	5.00		113	60-140			
Surrogate: Dibromofluoromethane	5.35		n	5.00		107	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.65		"	5.00		113	60-140			
Surrogate: Toluene-d8	4.79		**	5.00		95.8	60-140			
Surrogate: 4-Bromofluorobenzene	5.10		п	5.00		102	60-140			
Batch 3F30001 - EPA 5035			_							
Blank (3F30001-BLK1)				Prepared	& Analyz	ed: 06/30/0)3			
Ethanol	ND	40	ug/kg							
tert-Butyl alcohol	ND	20								
Methyl tert-butyl ether	ND	0.50	и							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	н							•
tert-Amyl methyl cther	ND	0.50	H							
1,2-Dichloroethane	ND	0.50	н							
1,2-Dibromoethane (EDB)	ND	0.50	н							
Benzene	ND	0.50	H							
Toluene	ND	0.50	H							
Ethylbenzene	ND	0.50	H							
Xylenes (total)	ND	0.50	Ħ							
Gasoline Range Organics (C6-C10)	ND	100	**							
Surrogate: 1,2-Dichloroethane-d4	5.55		п	5.00		111	60-140			
Laboratory Control Sample (3F30001-B	S2)			Prepared	& Analyz	ed: 06/30/	03			
Methyl tert-butyl ether	7.92	0.50	ug/kg	9.92		79.8	60-140			_
Benzene	4.37	0.50	n	6.40		68.3	60-140			
Toluene	29.2	0.50	11	29.7		98.3	60-140			
Gasoline Range Organics (C6-C10)	365	100	19	440		83.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	5.57		,,	5.00		111	60-140		-	



URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607 Project: ARCO #601, San Leandro, CA

Project Number: N/P

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MMF0629 Reported:

06/30/03 18:26

Notes and Definitions

O-12 "The continuing calibration verification was outside of client contractual acceptance limits by 0.6% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."

O-12a "The continuing calibration verification was outside of client contractual acceptance limits by 0.7% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."

O-12b "The continuing calibration verification was outside of client contractual acceptance limits by 2.1% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose."

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

	Page of /	
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Chain of Custody Record

Project Name ARCO STATER # 601-712 Lewelling Block. BP BU/GEM CO Portfolio:

BP Laboratory Contract Number: 40 06 21 (24)

Requested Due Date (mm/dd/yy)

On-site Time:	Тетр;	- I
Off-site Time:	Temp:	
Sky Conditions:		
Meteorological Events:		
Wind Speed:	Direction:	

Send To: Segura Maglytize	BP/GEM Facility No.: #60/	Consultant/Contractor: We5/OMKLINAT					
Lab Name: 885 Janks Pr.	BP/GEM Facility Address: 7/2 Lewelling	Blud. Handro MAddress: 500 Allth St. # 200					
Lab Address: Margan Will. CA	Site ID No. #601	1 OTTELAND CA	OTECAND, CA,				
302777	Site Lat/Long:	e-mail EDD: Henry-Barrientos @ UNSCOR,	e-mail EDD: Henry - Barrientos @ UNSCORPICE				
:	California Global ID #:	Consultant/Contractor Project No.:					
Lab PM:	BP/GEM PM Contact: BPG/o ha (19/1/cu	once: Att. ASSIST Consultant/Contractor Tele/Fax: 108-247-1585/897	896.				
Tele/Pax: 408-782-8154/782-6308	Address: 4 Center Point. Dr. Ca	Rolling, CA Consultant/Contractor PM: Henry Barrilians					
Report Type & QC Level:		Invoice to: Consultant/Contractor or BP/GEM (Circle o	1e)				
BP/GEM Account No.:	Tele/Fax: 7/4670-5052/714-67	70-5-35-3 BP/GEM Work Release No:					
Lab Bottle Order No: Matrix	Preservatives	Requested Analysis	1				
Item No. Sample Description Time Soil/Solid Sediments	Taporatory No. of containers Unpreserved HASO, HAO,	BITEX 8021 BITEX 702 BITEX 8021 BITEX 702 Comments Comments	and				
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Sampler's Name: On Hambon Re	linquished By / Affiliation D	Date Time Accepted By / Affiliation Date Time	·				
Sampler's Company URS LOAK LAND	C. Vanlo	Carlos 5104 6/24: 3:30					
Shipment Date: 6/24/0 3		6/24 1615 -603 URY 16N					
Shipment Method:							
Shipment Tracking No:	•						
Special Instructions: Combon 2114	sum ples to one comp	nesit	*				
Mary 1							
Custody Seals In Place Yes No Tempe	fature Blank Yes No Coole	er Temperature on Receipt 6 PKC Trip Blank Yes No BP COC Rev 1 2/5/02					

ATTACHMENT C FIELD SAMPLING DATA SHEETS



SAMPLING LOG



Site	ARCO Station No. 601			Date_	6/18/03 - 6/19/03				
Samplers	Alok Kolekor			Proj No					
DID Model No	580B OVM	Catibration date/time:	6/18/03 9:00 AM	Page	1	of	1		

Sample ID	PID reading (ppm)	Depth feet	Time 24 hrs	Matrix soil/water	Comments
D-1	0.0	4.0	4.52	soil _	no odor
D-2	0.0	4.0	4.31	soil	no odor
D-3	1.0	4.0	5.25	soil	no odor
D-4	8	4.0	5.28	soil	no odor
D-5	0	4.0	6.38	soil	no odor
D-6	685	4.0	6.42	soil	strong hydrocarbon odor
D-7	12	5.0	8.40	soil	no odor, sample collected on 6/19/03.
D-8	0.0	4.0	8.45	soil	no odor, sample collected on 6/19/03.
PL-1	0	4.0	5.05	soil	no odor
PL-2	304	4.0	5,20	soil	slight hydrocarbon odor.
PL-3	0	4.0	5.34	soil	no odor
PL-4	0	4.0	5.40	soil	no odor
PL-5	0	9.0	6.03	soil	no odor, excavated to 9 ft bgs. no cohesive soil to sample-NO SAMPLE COLLECTED>
PL-6	0	9.0	6.20	soil	no odor, excavated to 9 ft bgs. no cohesive soil to sample-NO SAMPLE COLLECTED>
PL-7	30	5.0	6.26	soil	slight hydrocarbon odor.
PL-8	0	6.0	8.48	soil	no odor, sample collected on 6/19/03.
PL-9	0	4.0	6.47	soil	no odor
PL-10	0	5.0	8.25	soil	no odor, sample collected on 6/19/03.
PL-11	o	4.0	8.55	soil	no odor, sample collected on 6/19/03.
PL-12	0	5.0	9.30	soil	no odor, sample collected on 6/19/03.
PL-13	9	4.0	9.10	soil	slight hydrocarbon odor, sample collected on 6/19/03.
PL-14	0	6.0	9.15	soil	no odor, sample collected on 6/19/03.
OE PL-2	34	8.0	9.50	soil	no odor, overexcavation sample from PL-2 sample collected on 6/19/03.
				_	
				_	

	see map for sampling locations
Notes:	Samples PL-5 and PL-6 were not collected since a representative soil sample could not be obtained.

ATTACHMENT D
WASTE MANIFESTS

REPUBLIC SERVICES 4001 N. Vasco Road, Livermore, Cal	VASCO ROAD, LL	. C		6370	8
TICKET: 41959) CUSTOMER: DILL / DILL DRD/EXXON TRUCK: 01 ACCT#: 5007014 PROFILE#: 1002161	(920) ##/ -04	DΑ٦	É: 07/03/;:003 E: 14:59 11	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	-
GENERATOR: 100816 / ARED #501 ORIGIN: 10 / SON LEANDED		GROSS: TARE:	64420 LBS 30860 LBSMa	y trans	
LICENSE: COMMENT:	H-11-11-11-11-11-11-11-11-11-11-11-11-11	NET:	34160 LBS		
	QUANTITY UNIT		34160 LB3 AMOUN	Business (Br. 1888)	ized
COMMENT: WASTE: SOIL SOIL NDC DECETVES	QUANTITY UNIT	NET:	34160 1.85	Business (Br. 1888)	Jany unauthorized.
COMMENT: WASTE: SOIL / SOIL NOC		NET:	34160 1.85	Business (Br. 1888)	WARNING: Transporting any unauthorized hazardous waste to this facility for discount in

RECYCLING

Paymond v

Weighmaster:

of any liquid or hazardous waste.

REPUBLIC SERVICES VASCO ROAD, LLC 4001 N. Vasco Road; Livermore, California 94551 • (925) 447-0491

419557

CUSTOMER:

DILL / BILLARD EXYON

TRUCK:

Die

ACCT#: PROFILE #:

5007014 100.161

GENERATOR: 1000161 / ARCO NEG! 10 SAN LEANDEN

- ORIGIN:

LICENSE:

COMMENT:

WASTE:

SOUN / SOUL

(M)(

QUANTITY

23.52

RATE UNIT

GROSS:

TARE:

NET:

79840 LBS

BEARD LINE

47040 LBS

DATE: 07/03/2003

TIME: 11:09

AMOUNT

11:33

DECEIVE

Tax

I certify that I have not disposed of any liquid or hazardous waste.

Weighmaster:

RECYCLING

Total:

HARK P

09:43

REPUBLIC SERVICES VASCO ROAD, LLC 4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

TICKET:

4103**8**0.

CUSTOMER:

DILL / DILLIND/EXYON

TRUCK: ACCT#:

001 5007014

PROFILE #: 1002161

ORIGIN:

10 / SAN LEARDRO

LICENSE:

GENERATOR: 1002161 / ARCO #601

COMMENT:

WASTE:

QUANTITY UNIT

RATE

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AMOUNT

32700 LBSManusi

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DATE: 07/03/0003

72180 LOS

39490 LBS

TIME: 08:43

SOME / GOTE

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19.74

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~ 9 2003

I certify that I have not disposed of any liquid or hazardous waste.

Weighmaster:

RECYCLING

Total:

RAYMOND VO

REPUBLIC SERVICES VASCO ROAD, LLC 4001 N. Vasco Road, Livermore, California 94551 • (925) 447-0491

TICKET:

11111

CUSTOMER: DILL / DILLARD/EXXIA

TRUCK: ACCT#:

991

5007014 PROFILE #:

1003161

GENERATOR: 1002161 / ARCO #601

ORIGIN:

WASTE:

16 / SABLLEANDRO

LICENSE: COMMENT:

RATE UNIT

GROSS:

TARE:

NET:

AMOUNT

DATE: 07/03/2003

TIME: 08:24 08:25

60340 LBS

29640 LBS

Sicob (Bishanu)

SOIL / SOIL ADC

14.88

QUANTITY

DECEIVE

JUL - 3 2003

I certify that I have not disposed of any liquid or hazardous waste.

Total:

RAYMOND \

Weighmaster:

RECYCLING

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<u>/_</u>		IBLIC S Vasco Road	EDVIC	S VA	sco	RO	ΑD	, LLC
₹ ? ?	REPU	Vasco Road	d, Liverma	ດ, Californ	ia 9455	j * (9	925) ·	447-0491
	4001111	100		*				

TICKET: 481450 CUSTOMER: DILL DISLARD/EXYCH

TRUCK:

ACCT#: 5007814 PROFILE #: 1000161

GENERATOR: 1000161 / APCD #601 TO A CONTITUOD A 91

ORIGIN: LICENSE: COMMENT:

WASTE:

soni / sun.

QUANTITY

UNIT

RATE

Total:

MACH P

GROSS:

TARE:

NET.

DATE: 07:0002:0003

ABOVE LES

17509 LBS

31/40 LS/9Manual

TIME: pg. . ".

AMOUNT

69:56

9,75

DECEIVE JUL 1 9 2003

Tax

I certify that I have not disposed of any liquid or hazardous waste.

TOC

DRIVER

Weighmaster:

RECYCLING