

ENVIRONMENTAL SERVICES

6601 Koll Center Parkway P.O. Box 5252 Pleasanton, CA 94566 (510) 426-8787

SAMPLING REPORT
for
THE DETERMINATION OF BTEX AND DIESEL
at the
RMC LONESTAR SUNOL AGGREGATE PLANT
SUNOL, CALIFORNIA

SEMI-ANNUAL REPORTS FOR JULY - DECEMEMBER, 1992 & JANUARY - JULY, 1993

Prepared for: California Regional Quality Control Board San Francisco Bay Region

July 27, 1993

INTRODUCTION

RMC Lonestar operates the Santa Clara Sand and Gravel plant located at 6527 Calaveras Road, Sunol. This facility mines and processes sand and gravel for the construction industry. As part of the operation RMC Lonestar maintains a 10,000 gallon, above ground diesel fuel tank. On August 21, 1990 approximately 2,700 gallons of diesel fuel were spilled onto the soil near the tank as part of an act of vandalism during a Labor strike. The perpetrators of this act have never been caught.

Three monitoring wells, designated RMC-2, RMC-3, and RMC-4, were installed to evaluate the effect on the spill on the local ground water in September 1990 by GeoStrategies Inc. (GSI) of Hayward. GSI sampled these wells on a quarterly basis until January 1993. Beginning in January 1993 the sampling and reporting of there wells was assumed by RMC Lonestar personnel. Although instructed to do so, GSI did not prepare a summary report for the sampling activities during the second half of 1992. The original data was not transmitted to RMC Lonestar staff by the consultant until June 16, 1993. After discussions with Alameda County Health Care Services Agency staff it was agreed to combine the reporting periods of July through December 1992 with January through July 1993 into the present summary report.

SAMPLING PROCEDURES

SCHEDULE

In accordance with the letter from Alameda County Health Care Services Agency dated January 21, 1990, well RMC-4 is sampled quarterly whereas wells RMC-2 and RMC-3 are sampled semiannually. Ground water levels are measured quarterly in all three wells.

SAMPLING

Water Level Measurements

The depth to the static water level is measured in each well using a electronic interface probe. The static water level is measured relative to the top of the PVC well casing to the nearest 0.01 foot. Ground water elevations presented in the attached Tables and Figures are referenced to an assumed project datum and are calculated by assigning the top of casing of RMC-2 the value of 100 foot elevation.

Water Quality Sampling

Ground water samples were collected using a clean teflon bailer after purging three to five casing volumes of water from each well. Samples were stored and transported to the analytical laboratory at ±4°C under strict Chain of Custody protocol. All samples were analyzed by a California state

certified laboratory, for TPH-Diesel using EPA Method 3510 and BTEX using EPA Method 8020. Analysis of the Septmember 18, 1992 and December 29, 1992 were performed by NET Pacific, Santa Rosa whereas the April 6,1993 and July 10, 1993 analysis were performed by Priority Environmental Labs, Milpitas.

Quality Control

One quality control sample was included in each sampling event. This consisted of an equipment blank prepared by running a portion of distilled water through all the sampling equipment after normal cleaning in the field. This procedure is useful is assessing not only sampling handling but also the possibility of contamination crossover between wells.

REPORTING

A summary of data collected and analytical results are presented in tabular form on the attached tables. Monitor well information, static water level data and well purging volumes are presented on Table 1. Graphical representations of the static water levels in the form of contour plots shown as Figures 2 through 5. Analytical results for the six month period covered by this report (July 1992 through July 1993) are presented on Table 2. Table 3 presents the historical database of all analytical data collected for wells RMC-2 through RMC-4.

Copies of all original analytical certificates, field data forms and chain-of-custody sheets are included as Appendix A.

SUMMARY OF TEST RESULTS

During this reporting period, no tested constituent was found in the ground water at levels above the analytical detection limits except for 110 µg/L diesel reported in well RMC-3 during the December 29, 1992 sampling. The analytical laboratory (NET Pacific) noted that the positive result in this sample appeared to be attributable to a hydrocarbon heavier than diesel. The presence of diesel in RMC-3 reported in the December 29, 1992 sampling was not supported by the July 10, 1993 sampling results. At this time, the December 1992 value seems to be an anomalous data point, possibly from outside contamination. However, at least one more negative analysis of the ground water from this well is needed to confirm this assumption.

TABLE 1

FIELD MONITORING DATA

WELL	MONITORING	CASING DIA.	TOTAL WELL	WELL BLEV.	DEPTH TO	STATIC WATER	PURGED WELL
NO.	DATE	(IN)	DEPTH (PT)	(FT)	WATER (PT)	ELEV. (FT)	VOLUMES
RMC-2	9-18-92	2	43.50	100.00	35.14	64.86	
RMC-2	12-29-92	2	43.50	100.00	34.24	65.76	
RMC-2	3-13-93	2	42.50	100.00	29.13	70.87	
RMC-2	7-10-93	2	42.50	100.00	31.72	68.28	5.2 gal
RMC-3	9-18-92	2	17.90	69.84	5.90	63.94	
RMC-3	12-29-92	2	17.90	69.84	5.13	64.71	
RMC-3	3-13-93	2	18.50	69.84	2.44	67.40	
RMC-3	7-10-93	2	18.50	69.84	3.46	66.38	7.2 gal
RMC-4	9-18-93	2	42.80	101.38	36.43	64.95	
RMC-4	12-29-93	2	42.70	101.38	35.51	65.87	
RMC-4	3-13-93	2	40.40	101.30	30.34	71.04	3.3 gal
RMC-4	7-10-93	2	40.40	101.38	33.06	68.32	3.5 gal

TABLE II

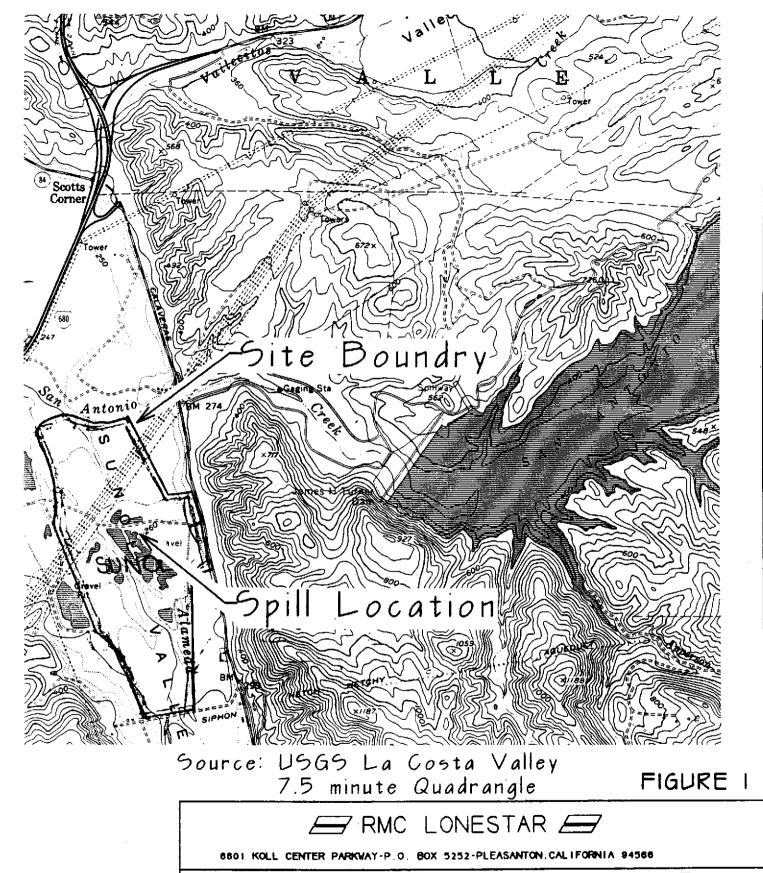
GROUND-WATER	RNALVERS	ፈጥፋብ
GROOMS WATER		תות

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WELL	SAMPLE DATE	ANALYSIS Date	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-DIRSEL (PPM)
RMC-2	7-10-93	7-12-93 & 7-13-93	<0.5	<0.5	<0.5	<0.5	<50
RMC-3	7-10-93	7-12-93 & 7-13-93	<0.5	<0.5	<0.5	<0.5	<50
RMC-4	9-18-92	9-24-92	<0.5	<0.5	<0.5	<0.5	<50
RMC-4	12-29-92	1-04-93	<0.5	<0.5	<0.5	<0.5	
RMC-4	3-13-93	3-13-93 & 3-14-93	<0.5	<0.5	<0.5	(0.5	<50
RMC-4	7-10-93	7-12-93 & 7-13-93	<0.5	<0.5	<0.5	<0.5	<50

TABLE III

	HISTORICAL	GROUND-WATER	OUALITY	DATABASE
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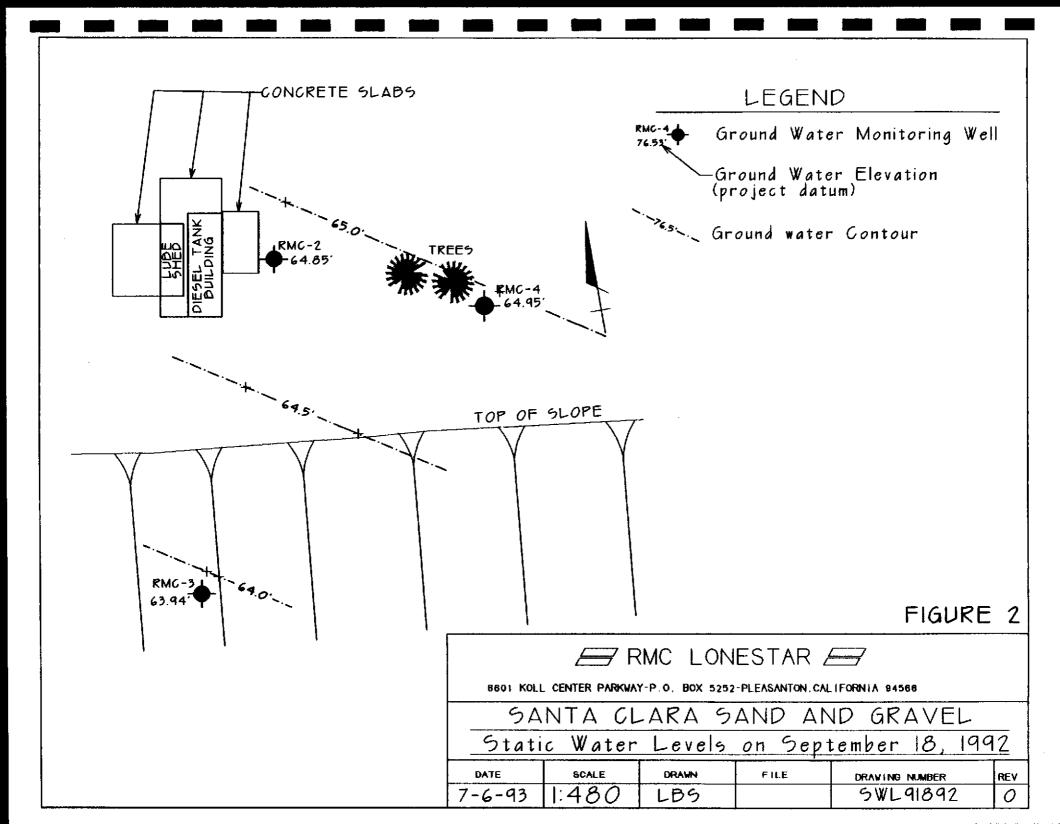
SAMPLE DATE	SAMPLE POINT	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)
10/05/90	RMC-2	<60.				
01/19/91	RMC-2	<50.	<0,5	<0.5	<0.5	(0.5
02/20/91	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
03/18/91	RMC-2	<50 ,	<0.5	<0.5	<0.5	<0.5
06/10/91	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
09/17/91	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
12/16/91	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
03/09/92	RMC-2		ampled			
06/30/92	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
09/18/92	RMC-2		ampled	-		
12/29/92	RMC-2	<50.	<0.5	<0.5	<0.5	<0.5
03/13/93			ampled			
07/10/93	RMC-2	<50	<0.5	<0.5	<0.5	<0.5
10/05/90	RMC-3	<50.				
01/19/91	RMC-3	<50.	<0.5	<0.5	<0.5	<0.5
02/20/91	RMC-3	<50.	<0.5	<0.5	<0.5	<0.5
03/18/91	RMC-3	<50.	<0.5	<0.5	<0.5	<0.5
06/10/91	RMC-3	<50.	<0.5	<0.5	<0.5	<0.5
09/17/91	RMC-3	<50 ,	<0.5	<0.5	<0.5	<0.5
12/16/91	RMC-3	₹50.	<0.5	<0.5	<0.5	<0.5
03/09/92	RMC-3		ampled			
06/30/92	RMC-3	<50,	<0.5	<0.5	<0.5	<0.5
09/18/92			ampled			
12/29/92	RMC-3	110.	<0.5	<0.5	<0.5	<0.5
03/13/93			ampled	.,,,,		
07/10/93	RMC-3	<50	<0.5	<0.5	<0.5	<0.5
10/05/90	RMC-4	<50.				
01/19/91	RMC-4	<50.	1.0	0.8	3.1	1.2
02/20/91	RMC-4	<50.	<0.5	<0.5	<0.5	<0.5
03/18/91	RMC-4	₹50.	0.83	4.4	<0.5	2.3
06/10/91	RMC-4	<50.	<0.5	4.1	<0.5	0.6
39/17/91	RMC-4	₹50.	<0.5	<0.5	₹0.5	<0.5
12/16/91	RMC-4	₹50.	<0.5	<0.5	<0.5	<0.5
03/09/92	RMC-4	<50.	<0.5	<0.5	(0.5	<0.5
06/30/92	RMC-4	<50.	<0.5	<0.5	<0.5	<0.5
39/18/92	RMC-4	<50.	<0.5	<0.5	<0.5	<0.5
12/29/92	RMC-4	< 50 .	<0.5	<0.5	<0.5	⟨0.5
03/13/93	RMC-4	<50.	<0.5	<0.5	<0.5	<0.5
07/10/93	RMC-4	<50.	<0.5	<0.5	₹0.5	<0.5

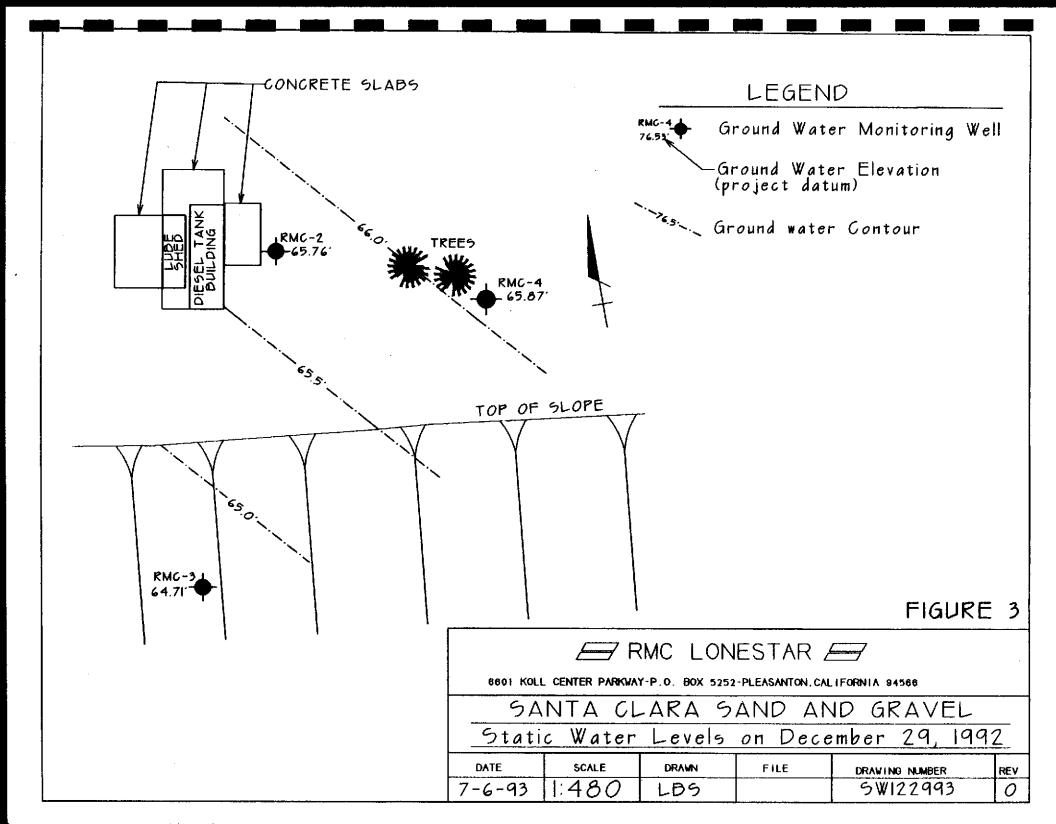


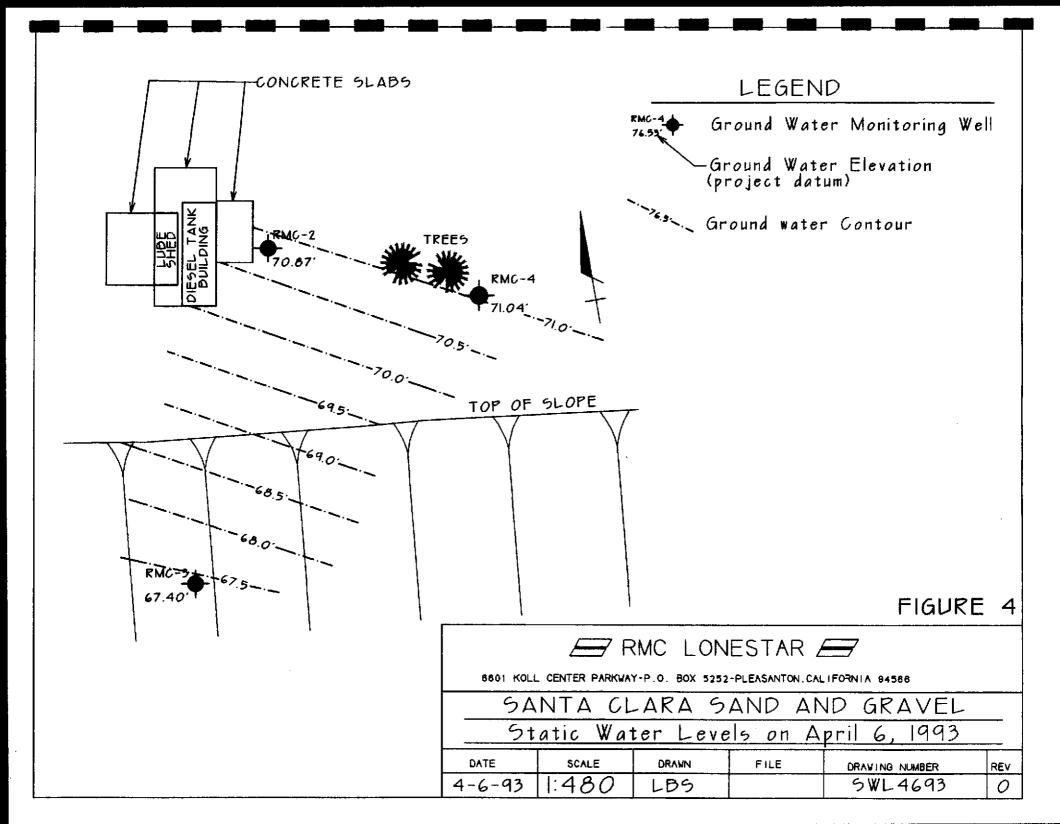
SANTA CLARA SAND AND GRAVEL

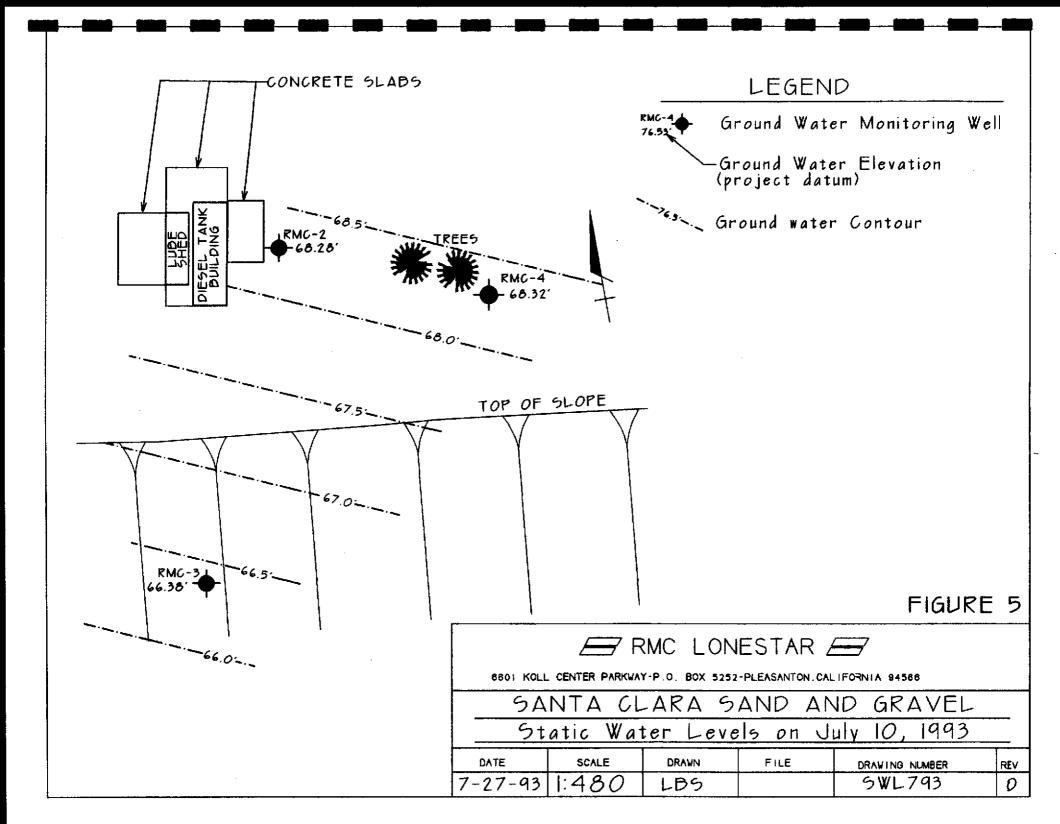
Facility Location Map

ſ	DATE SCALE		DRAWN	FILE	DRAWING NUMBER	REV
	7-27-93	1:24000	LBS		SUFRAM	0









APPENDIX A



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Frank Cline Gettler-Ryan Inc. 2150 W. Winton Avenue Hayward, CA 94545 Date: 10/06/1992

NET Client Acct No: 67900 NET Pacific Job No: 92.48382

Received: 09/21/1992

Client Reference Information

RMC Lonestar 6527 Calaveras Rd Sunol / 3004.01

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

JS:rct
Enclosure(s)



Client No: 67900 Client Name: Gettler-Ryan Inc.

NET Job No: 92.48382

Date: 10/06/1992

Page: 2

Ref: RMC Lonestar 6527 Calaveras Rd Sunol / 3004.01

Descriptor, Lab No. and Results

			RMC-4	Trip	
Parameter	Method	Reporting Limit	09/18/1992 09:46 137478	137479	Units
METHOD 8020 (GC, Liquid)					
DATE ANALYZED			09-24-92	09-24-92	
DILUTION FACTOR*			1	1	
Benzene	8020	0.5	ND	ND	ug/L
Ethylbenzene	8020	0.5	ND	ND	ug/L
Toluene	8020	0.5	ND	ND	ug/L
Xylenes (Total)	8020	0.5	ND	ND	ug/L
SURROGATE RESULTS					
Bromofluorobenzene			89	92	% Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			1	1	
DATE EXTRACTED			09-24-92	09-24-92	
DATE ANALYZED			09-25-92	09-25-92	
as Diesel	3510	0.05	ND	ND	mg/L
					pr -



Client No: 67900 Client Name: Gettler-Ryan Inc.

NET Job No: 92.48382

Date: 10/06/1992

Page: 3

Ref: RMC Lonestar 6527 Calaveras Rd Sunol / 3004.01

QUALITY CONTROL DATA

<u>Parameter</u>	Reporting Limits) Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Benzene	0.5	ug/L	87	ND	103	98	4.3
Toluene	0.5	ug/L	96	ND	102	98	4.8
Diesel	0.05	mg/L	83	ND	65	62	5.5

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

: Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

<u>SM</u>: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

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AUTHORIZED	Frank (Cline	DATE	9-18-92		
SAMPLE	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS RE		SAMPLE CONDITION LAB ID
DI ID	5	<u> </u>	9-18-92/946	BTXE &		
RMC-4		1.	1-10-10/146	TPH-DIE	<u></u>	
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CITY	50001				PHONE NO	15101723-71
AUTHORIZED	Franci (Cline	DATE	9-18-90		3004.01
SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS	REQUIRED	SAMPLE CONDITION LAB ID
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	9-18	- 92		· (-	Souch	
DATE COMPLETED			FOR	REMAN		_ ,



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Louis Schipper RMC Lonestar P.O. Box 5252 6601 Koll Center Pkwy Pleasanton, CA 94566 Date: 01/15/1993 NET Client Acct No: 67400 NET Pacific Job No: 92.50053 Received: 12/31/1992

Client Reference Information

RMC Lonestar/6527 Calaveras Blvd, Sunol

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

JS:rct Enclosure(s)



Client No: 67400

Client Name: RMC Lonestar

NET Job No: 92.50053

Date: 01/15/1993

Page: 2

Ref: RMC Lonestar/6527 Calaveras Blvd, Sunol

Descriptor, Lab No. and Results

			RMC-2	RMC-3	
		Reporting	12/29/1992 12:07	12/29/1992 11:39	
Parameter	Method	Limit	148321	148322	Units
METHOD 8020 (GC, Liquid)					
DATE ANALYZED			01-04-93	01-04-93	
DILUTION FACTOR*			1	1	
Benzene	8020	0.5	ND	ND	ug/L
Ethylbenzene	8020	0.5	ND	ND	ug/L
Toluene	8020	0.5	ND	ND	ug/L
Xylenes (Total)	8020	0.5	ND	ND	ug/L
SURROGATE RESULTS					
Bromofluorobenzene			73	100	t Rec.
METHOD 3510 (GC,FID)		,			
DILUTION FACTOR*			1	1	
DATE EXTRACTED			01-08-93	01-08-93	
DATE ANALYZED			01-12-93	01-12-93	
as Diesel	3510	0.05	ND	0.11**	mg/L

^{**} The positive result for Petroleum Hydrocarbons as Diesel appears to be due to the presence of heavier hydrocarbon rather than Diesel.



Client No: 67400 Client Name: RMC Lonester

NET Job No: 92.50053

Date: 01/15/1993

Page: 3

Ref: RMC Lonestar/6527 Calaveras Blvd, Sunol

Descriptor, Lab No. and Results

4			RMC-4	TB	
Parameter	Method	Reporting Limit	12/29/1992 11:18 148323	148324	Units
METROD 8020 (GC, Liquid)					
DATE ANALYZED			01-04-93	01-05-92	
DILUTION FACTOR*			1	1	
Benzens	8020	0.5	ND	ND	ug/L
Ethylbenzene	8020	0.5	ND	ND	ug/L
Toluene	8020	0.5	ND	ND	ug/L
Xylenes (Total)	8020	0.5	ND	ND	ug/L
SURROGATE RESULTS					
Bromofluorobenzene			87	88	* Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			1	1	
DATE EXTRACTED			01-05-93	01-05-93	
DATE ANALYZED			01-06-93	01-06-93	
as Diesel	3510	0.05	ND	ND	mg/L



Client No: 67400

Client Name: RMC Lonestar

NET Job No: 92.50053

Date: 01/15/1993

Page: 4

Ref: RMC Lonestar/6527 Calaveras Blvd, Sunol

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike &	Duplicate Spike % Recovery	RPD
Benzene	0.5	ug/L	109	ND	103	114	9.7
Toluene	0.5	ug/L	96	מא	100	119	17
Benzene	0.5	ug/L	104	ND	102	98	4.0
Toluene	0.5	ug/L	106	ND	99	94	5.0
Diesel	0.05	mg/L	101	ND	92	85	7.9

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METEOD REFERENCES

: Less than; When appearing in results column indicates analyte
 not detected at the value following. This datum supercedes
 the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

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reporting limit.

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Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

 \underline{SM} : see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

ATE COMPLETED

12.29-92

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COOLER RECEIPT FORM

Project: KMC Lanestar, Le527 Cooler received on: 1/21/91 ar	Calarties Blvd Log No: 132	
Cooler received on: 12/21/92 ar		o k
, ,	(signature)	
	(Signarure)	
Were custody papers present?	YES	NO
Were custody papers properly fil	lled out?YES	МО
Did you sign custody papers?	Æ	ио
Was sufficient ice used?	E S	МО
Did all bottles arrive in good	condition (unbroken)?	NO
Did bottle labels match COC?		NO
Were proper bottles used for ana	alysis indicated?	МО
Correct preservatives used?	£ES	NO
VOA vials checked for headspace Note which voas (if any)	bubbles?YES	NO
Sample descriptor:	Number of vials:	
	home	
		
		
·		
List here all other jobs receive	ed in the same cooler:	
Tipo mere dil Adver Jone 1606146	pup gas Masur member member member	
Gettler-Ryan Job #	NET log #	

Trip Blank prepared 12/9/92 (prenous to betching)



GeoStrategies Inc.

LETTER OF TRANSMITTAL

Environmental Consulting Engineering and Geologic Services

DATE June 21, 1993

TO: Mr. Louis BMC Lon P. O. Box Pleasanton	Shipper estar 5252 Ca. 94566	PROJECT NO. 7004 SUBJECT: Junterly Montaring data EME Sovertar 6927 Pralaveras Road Sunal, Ca.
THE FOLLOWING ITEMS ARE:	FORWARDED SEP	ARATELY VIA
QUANTITY PROJECT NO.	DATE () (Annual Com	DESCRIPTION The Wall Off The State of the S
1 7007	4-18-72 Coscos	in all a silver in the
1 7004	12-29-92 Opser	eten Well Monitoring Report water Well Monitoring Report
THESE ARE TRANSMITTED as ch	ecked below:	
For appro	val	Approved
Før your u		Approved as noted
As reques		Returned for
For reviev	v and	Other
COMMENTS:		
COMMENTS:		
		2140 W. Winton Avenue, Hayward, CA 94545
Signed:	ller	(510) 352-4800 - FAX (510) 783-1089
		601 University Avenue, Suite 150, Sacramento, CA 95825
Capies Ta:		(916) 568-7500 - FAX (916) 568-7504

GETTLER-RYAN INC.

General and Environmental Contractors

OBSERVATION WELL
DAILY MONITOR RECORD

TIME DEPTH TO LIQUID HYDROCARBON THICKNESS (HT) WELL (DTH) OR (DTV) BEFORE THICKNESS (HT) AMOUNT PUMPED COMMEN RMC-1 2.30 dry 12 35.14 0 43.5 3 5.90 0 17.9	COMPANY	RMC L			JOB #	3004.01
VRI.	LOCATION		Calavera	RE	DATE	9-18-92
PRODUCT TANK: TOTAL YATER OTHER TOTAL YATER OTHER OTHER OTHER	CITY	Sunol			TIME	
PRODUCT TANK: TOTAL YATER OTHER TOTAL YATER OTHER OTHER OTHER	.				···	
PRODUCT TANK: TOTAL YATES OTHER	AET	(DTH) OR (DTW)	HYDROCARBON '	TOTAL Let	AMOUNT PUMPED	сомаента
3 5.90 36.43 3 42.8 Sanger 5.90 73.9 36.43 3 42.8 5.90 3 42.8 5.90 5	emc-1	2.30	dry			monit
PRODUCT TANK: TOTAL PLOYMETER TATER OTHER	12	35.14	<u>Q</u> '	43.5		
PRODUCT TANK: TOTAL PLOYAGTER OTHER	3	5.90	<u> </u>	17.9		
PRODUCT TANK: TOTAL PLOWMETER OTHER	14	36.43		42.8		sample
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PRODUCT TANK: TOTAL FLOWMETER OTHER						· ***
PRODUCT TANK: TOTAL FLOWMETER OTHER	 .					
PRODUCT TANK: TOTAL FLOWMETER OTHER	 ;					•
PRODUCT TANK: TOTAL PLOYMETER OTHER						
PRODUCT TANK: TOTAL FLOWMETER OTHER			/	/	·	
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	PRODUCT TANK:	TOTAL		n	WASTER	
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OMMENTS						
	ONORPITS					

GETTLER-RYAN INC.

General and Environmental Contractors

OBSERVATION WELL DAILY MONITOR RECORD

COMPANY				JOB # <i>30</i>	004.01
OCATION		Calqueras		DATE	12-29-92
CITY	Smal			TIME	
ARIT	DEPTH TO LIQUID (DTH) OR (DTF)	HYDROCARBON THE	AFTER	AMOUNT PUMPED	COMMENTS
ne – 1		Dry	2.2		
2	34.24		43.5		
3	5.13	<u></u>	17.9		3
4	35.51	<u>Ø</u>	42.7		
			/		
					
					
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		/	·		
	-				
	<u> </u>		·		
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PRODUCT TANK:	TOTAL			LOWIETER	
	WATER			OTHER	
					· · · · · ·
MMENTS					



PRIORITY ENVIRONMENTAL LABS

Fredision Environmental Analytical Laboratory

March 15, 1993

PEL # 9303025

RMC LONESTAR

Attn: Bradd Statley

Re: One water samples for BTEX and Diesel analyses.

Project name: Sunol

Date sampled: Mar 13, 1993

Date extracted: Mar 13-14, 1993

Date submitted: Mar 13, 1993
Date analyzed: Mar 13-14, 1993

RESULTS:

SAMPLE I.D.		Benzene (ug/L)		Benzene	Xylenes
RMC-4	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	92.3%	93.0%	91.9%	92.7%	95.8%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	3510 / 8015	602	602	602	602

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-946-9636

Fax: 408-946-9663

WATER QUALITY SAMPLE

SITE LOC	ration: Sur	NOL		·· ·		
SAMPLING CONTAINE NUMBER C	: RMC - Z : RMC - Z : METHOD: :R TYPE/SIZE OF CONTAINER	l:	NAME: SAMPL	берн Моо E ID.:_N	MAM	
WEATHER	CONDITION:_	N/A				
WELL CAS WELL CAS DEPTH TO HEIGHT O	ING DIAMETE ING ELEVATI ING DEPTH (WATER (ft) P WATER IN	ON (ft): 10 ft): 42 : 8 see 40 WELL (ft):	.50	4-inch o	casing=0.16 casing=0.65 casing=1.47	gal/ft
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)	TEMP. (deg. C)	рН	REMARI	κs
	<u> </u>	••••••••••••••••••••••••••••••••••••••		<u> </u>		
 						j
	CONTAINERS Enal remarks		7	8:55 - 1 Tuis St	we key To	FIT
Sampler	s Signature	e: Joyl Mo				

WATER QUALITY SAMPLE

SITE LOC	ation: <u>Su</u>	10L				
CONTAINE	: RMC-3 : RMC-3 : METHOD: :R TYPE/812E OF CONTAINES	:	NAME: SAMPL	<u> серн Мос</u> E ID.: <u>N</u>	A	
WEATHER	CONDITION:_					<u></u>
WELL CAS DEPTH TO HEIGHT O	ING DIAMETE ING ELEVATI ING DEPTH (WATER (ft) OF WATER IN OF WATER IN	ft): 18.9 : 948 W WELL (ft):	0 7K	4-inch c	asing=0.16 asing=0.65 asing=1.47	gal/it
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)	TEMP. (deg. C)	рН	REMARI	(S
						-
				-		
				-	<u> </u>	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>		
	<u> </u>			<u> </u>	<u> </u>	j
Addition Lock Z Locks	CONTAINERS I mal remarks F 2034 -> Nor OFF AS I	by sampler:	L KAY RI PLACE MENTS	46. HESIT	ANT TO CUE	27
Sampler'	s Signature	: fort Nov				

WATER QUALITY SAMPLE

SITE LOC	eation: <u>Su</u>	NOL			
SAMPLING CONTAINE	-/3-43 : RMC - 4 : METHOD: :R TYPE/SIZE OF CONTAINER	<u>refun Ba</u>	1.62		9C-4 (2) 4CML VOA
WEATHER	CONDITION:	Sanny w	ALM		
WELL CAS	SING DIAMETE SING ELEVATI SING DEPTH (DWATER (ft) OF WATER IN	(ft): 40.46	36	4-inch c	asing=0.16 gal/ft asing=0.65 gal/ft asing=1.47 gal/ft
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)	TEMP. (deg. C)	Нд	REMARKS
8:30 _{AM}	5 GALLONS				
Addition DTW	containers in al remarks = 30 · 34 / 2	by sampler:	 -	EMU. RONH TAKEN AT	Schipper

Priority Environmental Labs 1764 Houret Court Milpitas, CA 95035 (408) 946-9636

PEL # 9303025 P0 # 98670891 INV # 23437

Chain of Custody

1/04 noured ct. milpicas, CA. 95035 Tel: 408-946-9636 Fax: 406-946-963

DATE: 5 / 13 / 93 PAGE: 1 OF: 1

PROJECT MOR.: JOS COMPANY: RMC ADDRESS: P.O : P1e PHONE: 510 - 42 SIGNATURE: SAMPLE D	LONES Box asanto 6-878	STAR 5252 On. (B.7 FAX	2 CA_94566 :510-426	2281	TPH-Gospline (EPA 5030,8015)	TPH-Gasoline(5030,8015) w/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550.8015)	PURCEABLE ARONATICS BTEX (EPA 602,8020)	SE	PESTICIDES/PC8 (EPA 608.8080)	107AL RECOVERABLE 5- HYDROCARBONS EPA 418.1	<u> </u>	(SIS		REI;	OF		J26	e de la constante de la consta				NUMBER OF CONTAINERS
RMC-4	3-13	8:4	WATER				х	X									-						3
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PROJECT NEOP	MATION					RELING	UISHED (Van-		1 .	ECHVED B	Y:	gov	<i>,</i> 1	RELING	LUISHED I	BY:		2 F	ECHVED	BY:		2
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INSTRUCTIONS & COMM	MENTS:					NAME: Time:		,	NAME: Time: 7		Time; 77	NAME: Time:		no: A	: NAME:		Time:						
						RELINGUISHED BY: 1 JOSE DIE 1816 : MANE: RMC LOINE YAN COMPANY:			1	COMPANY: EL COMPAN			ANY:			C	OMPANY	· · · · · · · · · · · · · · · · · · ·	-				



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1993

PEL # 9307024

RMC LONESTAR

Attn: Louis Schipper

Re: Four water samples for BTEX and Diesel analyses.

Project name: Sunol

Date sampled: Jul 10, 1993 Date extracted: Jul 12-13, 1993 Date submitted: Jul 12, 1993

Date analyzed: Jul 12-13, 1993

RESULTS:

SAMPLE I.D.	Diesel	Benzene	Toluene		Total Xylenes
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
RMC-2	N.D.	N.D.	N.D.	N.D.	N.D.
RMC-3	N.D.	N.D.	N.D.	N.D.	N.D.
RMC-4	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.1%	85.2%	87.6%	82.4%	93.0%
Duplicate Spiked Recovery	93.6%	94.8%	96.7%	90.4%	102.5%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	3510 / 8015	602	602	602	602

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636

Fax: 408-946-9663

WATER QUALITY SAMPLE

SITE LOC	ATION:	unol			<u> </u>						
DATE: 7/10/93 SAMPLERS NAME: 10/14 M' AND SAMPLE ID.: SAMPLING METHOD: 1/45/16 Bailor CONTAINER TYPE/SIZE: 1/4/5 / Longs 2 Small NUMBER OF CONTAINERS: 3 WEATHER CONDITION: 1/20/16/16/16/16 WELL CASING DIAMETER (in): 2 WELL CASING DEPTH (ft): 1/2.50 DEPTH TO WATER (ft): 3/- 12/- 2-inch casing=0.16 gal/f HEIGHT OF WATER IN WELL (ft): 1/0.78 4-inch casing=0.65 gal/f VOLUME OF WATER IN WELL (gal): 1/22 6-inch casing=1.47 gal/f											
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)	TEMP. (deg. C)	На	REMARI	(S					
10:35	17				WATER Br	own/					
	containers of the second secon			s told	n At 10:	35					
Sampler'	's Signature	e: <i>1</i>	Self m:	(m							

WATER QUALITY SAMPLE COLLECTION LOG

DATE:	F CONTAINER CONDITION:_ ING DIAMETE ING ELEVATI ING DEPTH (WATER (ft) F WATER IN	SAMPLERS	m, 2 50 16	Chen	2-inch c	asing=0.16 asing=0.65 asing=1.47	gal/ft
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)		remp. eg. C)	рН	REMARI	
12:40	8					Brown	Christy
Addition 5				SAUS Ja; I	pho to	ffen 47	12;40

WATER QUALITY SAMPLE

PATE: PELL ID. PAMPLING CONTAINE PUMBER OF PEATHER PELL CAS PELL CAS PELL CAS PELL CAS PELL CAS	CONDITION:_ ING DIAMETE ING ELEVATI ING DEPTH (WATER (ft) F WATER IN	SAMPLERS 1	2 10	2-inch ca 4-inch ca	asing=0.16 gal/ft asing=1.47 gal/ft
TIME	VOLUME REMOVED (gal)	CONDUCT. (micro- mhos/ cm)	TEMP. (deg. C)	Нд	REMARKS
11:40	4				Brown, Cloudy
AMPLE C	ONTAINERS F	ELIVERED TO):		
ddition <i>Star</i>	al remarks ted furge apus tilk	by sampler At 11 En At 11 E: Kelly	: 00 : 40		

Triority Environmentar Labs 1764 Houret Court Milpitas, CA 95035 (408) 946-9636

PEL# 9307024 PO # 98572057 INV#

Chain of Custody

1764 Houret Ct. Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-963 DATE: 7 / / / 93 PAGE: / OF: / ADDRESS 6601 Gall, Center PEKONY
Pleasanton, CA, 94566 1PH-Diesel (EPA 3510/3550,8015) PURGEABLE AROMATICS BTEX (EPA 602,8020) PROJECT INFORMATION SAMPLE RECEIPT RELINGUISHED BY: RELINQUISHED BY: RECEIVED BY: TOTAL # OF CONTAINERS Hall M 1/2 1/13/63 FUATHLAN 7/12/4 SIGNATURE: SIGNATURE: RECD. GOOD COND./COLD INSTRUCTIONS & COMMENTS: COMPANY: