RO89 /



August 12, 2004

Akamodo County

AUG 1 3 2004

Mr. Kelly Engineer 1791 Pine Street Concord, California 94520

RE: Groundwater Sampling Letter Report

3820 San Leandro Street, Oakland, California

ACC Project Number 6651-001.00

Dear Mr. Engineer:

ACC Environmental Consultants, Inc., (ACC) has prepared this letter report to document results of groundwater sampling at 3820 San Leandro Street, Oakland, California. The project objectives were to obtain groundwater samples from three onsite monitoring wells, analyze the water samples for constituents of concern, and report the findings.

On your behalf, ACC will forward a copy of this report to Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA) for review.

BACKGROUND

The site consists of a gasoline and diesel fueling station (Guy's Diesel) located at 3820 San Leandro Street in Oakland, California (Figure 1). In his letter dated June 9, 2000, Mr. Chan of the ACHCSA requested that groundwater monitoring and sampling be performed at the site, and that the groundwater samples be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd), benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE). In addition, one groundwater sample was analyzed for all fuel oxygenates in accordance with regulations recently enacted by the Regional Water Quality Control Board (RWQCB).

In January 2003, ACC obtained and reviewed a copy of the August 10, 1998 Soil and Groundwater Investigation Report, prepared by Brunsing Associates, Inc. (Brunsing) for Mr. Kelly Engineer. According to Brunsing, two diesel fuel and two gasoline fuel underground storage tanks (USTs) were removed by American Consulting Remediation and Construction (ACRC) in January 1998. UST removal activities were summarized in ACRC's Tank Closure Report. Excavated soil removed during the UST removal was profiled and disposed at Forward Landfill. Brunsing advanced six exploratory soil borings (B1, B2, B5, B6, and B7) and installed three groundwater monitoring wells. The monitoring wells were subsequently developed and sampled on July 6, 1998. The six exploratory soil borings were completed to depths of 7.0 to 16.5 feet below ground surface (bgs) and

Pirace,

the three groundwater monitoring wells were completed to depths of 21.0 to 21.5 feet bgs. The three groundwater monitoring wells are screened from 5 to 20 feet bgs.

FIELD PROCEDURES

Groundwater Sampling

ACC performed groundwater sampling at the site on June 9, 2004. The locations of the three monitoring wells are illustrated on Figure 2. Prior to groundwater sampling, the depth to the surface of the water table in each well was measured from the top of the well casing using an electronic water level meter. The water level measurements were recorded to the nearest 0.01 foot. The wells were constructed of 2-inch diameter polyvinyl chloride (PVC) with locked well caps, and appeared to be in good condition. The total depth of each of the wells was approximately 20 feet below ground surface (bgs), and the depth to groundwater was measured to be approximately 11 feet below the top of the well casing.

TABLE 1 - GROUNDWATER DEPTH INFORMATION

Well No.	Well Elevation*	Date Measured	Depth to Groundwater	Groundwater Elevation
MW-1	27.54	07/06/98**	7.77	19.77
		09/10/00	N/A	N/A
		04/10/01	7.34	20.20
	•	07/17/01	9.00	18.54
		01/15/03	6.94	20.60
		04/17/03	7.01	20.53
		07/17/03	8.71	18.83
		11/21/03	9.61	17.93
		03/23/04	7.31	20.23
		06/09/04	8.65	18.89
MW-2	25.97	07/06/98**	8.15	17.82
		09/10/00	N/A	N/A
		04/10/01	7.32	18.65
	'	07/17/01	8.96	17.01
		01/15/03	7.25	18.72
		04/17/03	7.43	18.54
		07/17/03	8.89	17.08
		11/21/03	9.41	16.56
		03/23/04	7.59	18.38
		06/09/04	8.75	17.22

WellNo	Well Elevation* (above MSL)	Date Measured	Depili to Groundwater	Groundwater Elevation
MW-3	26.52	07/06/98**	8.42	18.10
		09/10/00	N/A	N/A
	i	04/10/01	7.73	18.79
		07/17/01	8.42	18.10
		01/15/03	7.60	18.92
		04/17/03	8.07	18.45
		07/17/03	9.07	17.45
		11/21/03	9.73	16.79
		03/23/04	7.85	18.67
		06/09/04	9.00	17.52

Notes: All measurements in feet

Groundwater Gradient

Groundwater elevations were calculated from data collected from the wells on June 9, 2004. The calculated groundwater flow direction and gradient values are south at 0.030 feet per feet. Historic values are summarized in Table 2.

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (foot/foot)	Direction
07/06/98	0.04	South
09/10/00	N/A	N/A
04/10/01	0.038	South
07/17/01	0.020	East
01/15/03	0.038	South
04/17/03	0.050	South
07/17/03	0.030	South
11/21/03	0.025	South
03/23/04	0.033	South-southwest
06/09/04	0.030	South

^{*}Well elevation measured to top of casing

^{**}Groundwater elevations recorded by BACE Environmental

Mr. Kelly Engineer August 12, 2004 Page 4

After water level measurements were collected, wells MW-1, MW-2 and MW-3 were purged by hand using a designated disposable polyethylene bailer for each well. The wells were considered to be purged when approximately four volumes were removed from each well. The removed purge water was stored onsite in a steel 55-gallon drum.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level in wells MW-1 and MW-2 and 60 percent in well MW-3, water samples were obtained using designated disposable polyethylene bailers. Three 40-milliliter VOA vials and one amber glass liter were filled to overflowing with the water collected from the three wells. The samples were preserved in a pre-chilled, insulated container and submitted to STL San Francisco (STL-SF), a state-certified analytical laboratory, following chain of custody protocol.

Analytical Results

Groundwater samples from wells MW-1, MW-2 and MW-3 were submitted to STL-SF for analysis of TPHg, TPHd, BTEX, and MTBE by EPA Method 8260B. Relatively minor concentrations were reported in monitoring wells MW-1 and MW-2 and elevated TPHg, BTEX, and MTBE were reported in monitoring well MW-3.

Analytical results from the groundwater samples are summarized in Table 3. Copies of the analytical results and chain of custody record are attached.

TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS PETROLEUM HYDROCARBONS

Sample ID	Date	TPHg (µg/L)	TPHd (µg/L)	Benzene (μg/L)	Toluenc (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	07/06/98	4,100	<100	36	53	<5.0	20	80
	09/10/00	1,000 ^g	1,800 ^{ndp}	4.8	<0.50	6.2	1.2	₹5.0
	04/10/01	1,100	N/A	12	7.7	<2.5	<2.5	73
	07/17/01	920	320 ^{ndp}	6.2	1.1	< 0.50	< 0.50	49
	01/15/03	360 ^g	86 ^{ndp}	5.5	<0.50	4.3	1.3	19
	04/17/03	<50	<50	< 0.50	< 0.50	< 0.50	<1.0	11
	07/17/03	380	95 ^{ndp}	19	< 0.50	3.7	1.5	5.6
	11/21/03	600	160 ^{ndp}	4.7	<0.50	8.8	2.0	4.3
	03/23/04	140	120 ^{ndp}	1.3	< 0.50	1.2	<1.0	11
	06/09/04	570	84 ^{edr}	1.6	<.50	1.5	<1.0	11

Samples TD	ADAG.	PIPHe :- (µe/L)	TPEd (hg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzens	Total Xylenes	MTBE (µg/L)
2010	07/06/00	6.400	-100	100	4.4	(µg/L)	(με/Ι.)	
MW-2	07/06/98	6,400	<100	190	14	13	12	210
	09/10/00	760 ^g	270 ^{edr}	19	<0.50	<0.50	< 0.50	110
	04/10/01	320	N/A	3.6	1.1	1.2	0.79	<5.0
Ĭ	07/17/01	440 ^g	68 ^{ndp}	6.0	< 0.50	6.2	< 0.50	<5.0
	01/15/03	750 ^g	250 ^{ndp}	13	<0.50	<0.50	< 0.50	78
1	04/17/03	180	120	< 0.50	< 0.50	<0.50	<1.0	8.1
1	07/17/03	640	400 ^{ndp}	10	< 0.50	<0.50	<1.0	27
įį.	11/21/03	980	1,100 ^{ndp}	2.2	0.62	<0.50	1.1	54
[03/23/04	660	350 ^{ndp}	0.81	<0.50	<0.50	<1.0	7.7
	06/09/04	1,000	1,300 ^{ndp}	8.9	0.55	<0.50	<1.0	28
MW-3	07/06/98	36,000	<100	6,700	72	6.2	530	13,000
	09/10/00	$20,000^{g}$	4,200 ^{ndp}	9,200	70	710	79	6,400
	04/10/01	15,000	N/A	4,500	27	320	140	8,800
	07/17/01	28,000 ^g	8,000 ^{ndp}	7,000	<50	270	75	15,000
	01/15/03	40,000 ^g	11,000 ^{ndp}	10,000	110	680	210	20,000
	04/17/03	39,000	3,200 ^{ndp}	11,000	<100	870	<200	34,000
	07/17/03	58,000 ^g	5,100 ^{ndp}	16,000	<250	850	<500	28,000
	11/21/03	80,000	7,500 ^{ndp}	15,000	<200	1,300	<400	27,000
	03/23/04	41,000	12,000 ^{ndp}	12,000	130	1,100	<200	27,000
	06/09/04	50,000	13,000 ^{ndp}	16,000	<250	1,200	<500	32,000

Notes: $\mu g/L = micrograms per liter (approximately equivalent to parts per billion)$

DISCUSSION

Similar to previous groundwater monitoring events, the groundwater sample from well MW-3 reported the highest concentrations of petroleum hydrocarbons and related constituents. Well MW-3 reported 50,000 micrograms per Liter (μ g/L) TPHg, 13,000 μ g/L TPHd, 16,000 μ g/L benzene, 32,000 μ g/L MTBE, and lesser concentrations of toluene, ethylbenzene, and xylenes. Concentrations of constituents of concern were significantly less in wells MW-1 and MW-2, indicating that the release(s) may be localized in the vicinity of well MW-3. Well MW-3 is located generally downgradient of the USTs and product dispensers.

< Indicates the sample tested below the indicated laboratory reporting limit

g = hydrocarbon reported does not match the laboratory's gasoline standard

edr = hydrocarbon is in the early diesel range and does not match the laboratory's diesel standard

ndp = hydrocarbon reported does not match the laboratory diesel standard

N/A = sample not analyzed for this constituent

CONCLUSIONS

Based on groundwater sample analytical results, ACC has made the following conclusions:

- Groundwater at the site is being impacted by ongoing releases of petroleum hydrocarbons as TPHg, TPHd, BTEX, and MTBE;
- Groundwater flow direction and gradient are consistent with historical trends and approximate surface topography; and
- The majority of impacted groundwater appears to be located in the vicinity of well MW-3.

RECOMMENDATIONS

Based on conclusions of groundwater monitoring performed to date and downgradient groundwater investigation, ACC recommends the following:

- Evaluate groundwater extraction in well MW-3 as an interim remedial option and to help minimize offsite migration of gasoline-impacted groundwater;
- Analyze future water samples from all three monitoring wells for TPHg, BTEX, and all fuel oxygenates by EPA Method 8260B and TPHd by EPA Method 8015M; and
- Meet with the Alameda County Health Care Services Agency to discuss the findings of subsurface investigation obtained to date and clarify additional investigation and any remediation.

If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,

cc:

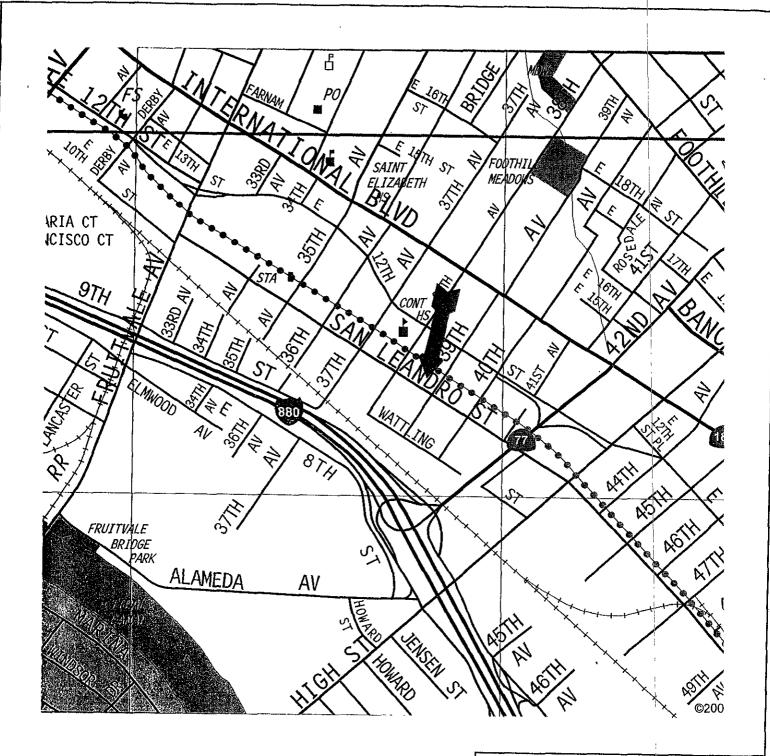
Edward Giacometti

Staff Geologist

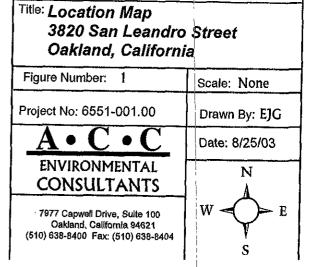
David R. DeMent, RG, REA II Environmental Division Manager

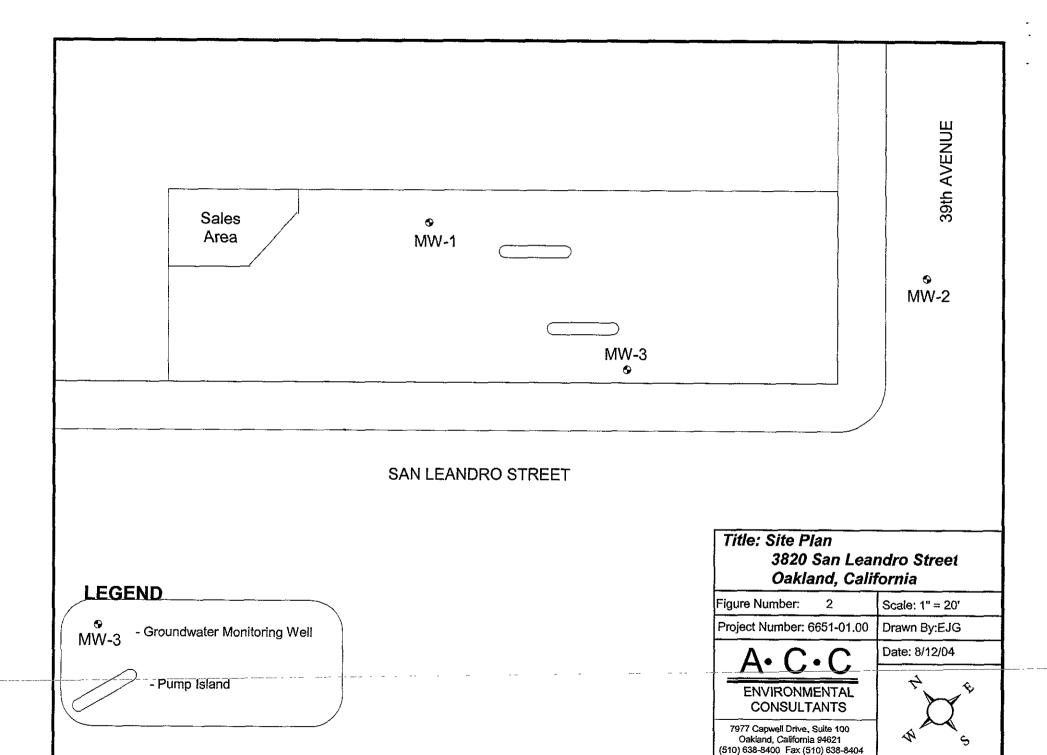
Mr. Barney Chan, ACHCSA

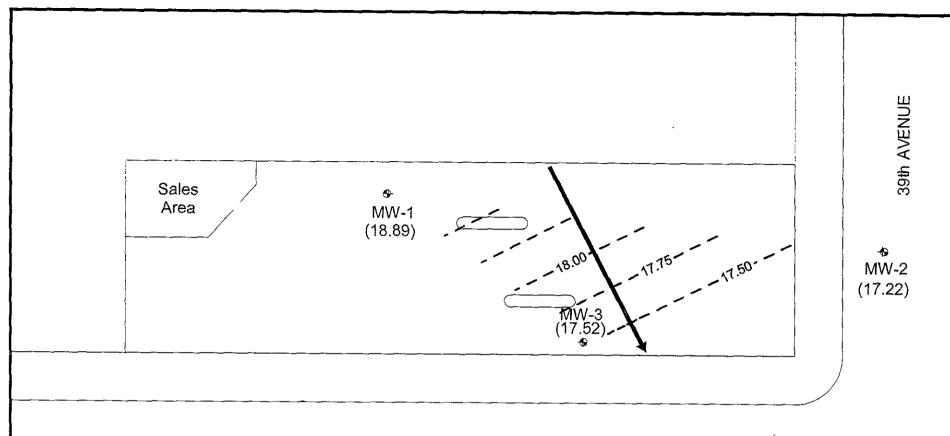
Mr. Paul Rosenstein, Esq.



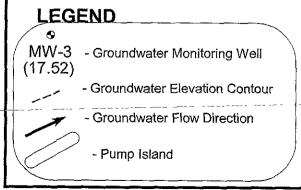
Source: The Thomas Guide, Bay Area 2002







SAN LEANDRO STREET



Title: Gradient Map
3820 San Leandro Street
Oakland, California

Figure Number: 3 Scale: 1" = 20'
Project Number: 6651-01.00 Drawn By: EJG

A• C• C

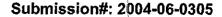
ENVIRONMENTAL
CONSULTANTS

7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

ENVIRONMENTAL LOXSELTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME: Gues Diesel				7							
	<u> </u>	·····		PURG	E METH	OD:	Yamua		Bei'l		
SITE ADDRESS: 3820 San L	andro!	Stree	<i>y</i>	SAMP	LED BY:	Edo	Sigeov	ne.	Ki .		
JOB#: 651-001.00	~		····	LABORATORY: STC-SF							
DATE: 3/28/04				ANALY	'818: T	PHI	PH /	i RH	EX MTB	F	
Onsite Drum Inventory SOIL:				МОИІТ	ORING I	X	3		/ EVELOPING		
EMPTY: WATER: 10 E	676	2 61272271420444		SAMPL	ING DA			•			
	: PURGE Vol		PURE	E WOT	ER PSA	Divige			GBSER	VATIO	
WELL: MW-1	(Gal)	рН	Temp.(C)	Cond.	Sal.	Turb.	D.O.		Froth		
DEPTH OF BORING: 20.03	2.0		18.4				225	1	Sheen		
DEPTH TO WATER: 7.81	4.0	<u></u>	18.3				2.16	F	1	ype	
WATER COLUMN: 12.72	6.0		18.1				0.50	-	Free Prod		
WELL DIAMETER: シ ^ゾ	8.0		18.0					-	ountT	!	
WELL VOLUME: 20 gallons									Other	, pc	
COMMENTS: Purge: 8:30									silty		٠
Sample: 10:00							 	1	J		
WELL: MW-2	(Gal)	На	Temp.(C)	Cond.	Sal.	Turb.	D,O,		Froth		
DEPTH OF BORING: 20. 07	2.0		17.6				2.34	X			
DEPTH TO WATER: 7.59	4.0		17.8		· · · · · · · · · · · · · · · · · · ·		2.25	X		pe 903	
WATER COLUMN: 12.48	6.0		18.4				2,13	Ħ	Free Proc	71	
WELL DIAMETER: ∅"	8.0		18.3					Am	ountT		
WELL VOLUME: 20 gallons									Other	De	
COMMENTS:									gray	!	
Purge: 9:00									U		
Sample: 10:10				· ·					8114	:	
well: Mw-3	(Gal)	рН∙	Temp.(C)	Cond.	Sal.	Turb.	D.O.		Froth	 	مصارحات المالات التيمية -
DEPTH OF BORING: 19.49	0.0		16.9	**************************************			ડે.∞	X	Sheen	l	,i
DEPTH TO WATER: 7,85	4.0		17.2			,	2.96			0e <i>98</i> \$:
WATER COLUMN: 11-64.	6.0		17.4				≈·16 ≈·87		Free Prod	\cup	_
WELL DIÀMETER: م	8.0		17.6			·		Amo			
WELL VOLUME: 2.0 gallons									ountTy Other	pe	 -4. ∤
COMMENTS: Ruge: 9:30					· ·				2	· 	
Sample: 10:20											
7977 Capwell Driv	e, Sulte 100	Oak	land, CA	94621 .	(510) 63	8-8400	FAX: (5	(O) E	38-8404		





ACC Environmental Consultants

June 16, 2004

7977 Capwell Drive, Suite 100 Oakland, CA 94621

Attn.:

Aaron Wolf

Project#: 6551-001.00

Project:

Guy Gas & Diesel

Site:

San Leandro

Dear Mr. Wolf,

Attached is our report for your samples received on 06/09/2004 17:15 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/24/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely.

Vincent Vancil Project Manager



ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW-1	06/09/2004 13:00	Water	1
MW-2	06/09/2004 13:22	Water	2
MW-3	06/09/2004 13:17	Water	3





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Prep(s): 3510/8015M Test(s): 8016M	
Sample ID: MW-1 Lab ID: 2004-06-0305 - 1	
	for a second
Sampled: 06/09/2004 13:00 Extracted: 6/11/2004 06:55	
Matrix: Water QC Batch#: 2004/06/11-02,10	
	and the second second

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
Diesel	84	50	ug/L	1.00	06/12/2004 00:53	edr
Surrogate(s)						
o-Terphenyl	77.6	50-120	%	1.00	06/12/2004 00:53	



ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

100	Short many at 15 years to many and a second	THE RESIDENCE AND ADDRESS OF THE PARTY.	contract or some a some second or statement		AND DESCRIPTION OF THE PARTY OF			
89	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100			AND THE RESERVE OF THE PARTY OF			
24	A Del Kille Top Australia of Street		THE PERSON NAMED IN COLUMN TWO IS NOT	Constitution of the second		COLUMN TO THE PARTY OF THE PART		
- 15	THE PART OF THE	30822 EALA 191		200 CONTRACTOR 16 172/23 L		TANHANI	- OM4 GAT	CONTROL LANCE OF THE PARTY OF T
₽°.	Prep(s):	75 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E		the second secon		Test(s):	8018M	
	St. Commission of the Commissi	STATE OF STA		The second second	10.1			
- 6		THE RESERVE OF THE PARTY OF	THE COURSE OF STREET	20 A 19 A 1			TO LOCATE AND ADMINISTRATION OF THE PARTY OF	
E.	Sample ([The state of the s	AVER THE PERSON NAMED IN				No. 2
800		3. 海里 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,			2004-06-03	A Harrison Annual Control of the Con
- 63		5. 20 M M M M M M M M M M M M M M M M M M 			the second secon	·美元结构,发了1753 [13] [13] · [13]		
5%	THE RESERVE OF THE RE							
- 8	the first was at 17 pages 1		Manager of the Company of the Compan		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
76	THE RESIDENCE OF THE PARTY OF T		CONTRACTOR OF THE PARTY OF THE		CONTRACTOR OF THE STATE OF THE	4.51		ACCUPANT OF A STATE OF THE STAT
17			THE REPORT OF THE PERSON NAMED AND		14 (14)			NEW TOTAL PARTY OF THE PARTY OF
10)(10%.SA/Q 800)	Commence of the second second	- Part	- Cydna Atria	·····6/11/2004.0	
26		光线定 化二十二十二十二				CALLED TO SECURE		0.00
23	Sampled:			4 1 16 3 10 10 1				
500	The state of the s	AL THE STATE OF TH	ASSESSED FOR A STATE OF THE STA	Section 12 and 1				
160	ACCUMANTAL PROPERTY OF THE	AT A STANISH THE BUILDING		A CONTRACT OF THE PARTY OF THE		The same of the sa		
- %	Matrix				。 一		4. 0000/00/3/4	02,10
92	AND THE RESERVE OF THE PARTY OF		WEST AND AND TO 10 10 10 10 10 10 10 10 10 10 10 10 10		AND THE PERSON OF THE PERSON O			
3%	CAMPAGE TO SEE THE PARTY OF THE PARTY OF	A Car Scrowner of			THE PARTY OF THE P	The state of the s		
515	THE PERSON NAMED IN COLUMN TO BE STORY OF THE PERSON OF TH	3	ALGO CHARLES TO A CO. I AND	10.70 mm	CHESCHOOL CONTRACTOR AND ADMINISTRATION OF THE PERSON OF T		100 6 10 10	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1300	50	ug/L	1.00	06/12/2004 01:21	ndp
Surrogate(s)	1	1	}			
o-Terphenyl	79.9	50-120	%	1.00	06/12/2004 01:21	





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Prep(s): 3510/80:15M - Test(s): 8015M - Lab ID: 2004-06-0305 - 3
Sampled: (06/09/2004 13:17 - Extracted: 6/11/2004 06:55
Matrix: Water QC Batch#: 2004/06/11-02:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	13000	250	ug/L	5.00	06/12/2004 20:00	ndp
Surrogate(s)	1		ł	Ę	,	
o-Terphenyl	NA	50-120	%	5.00	06/12/2004 20:00	sd





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Prep(s): 9510/8015M Method Blank MB, 2004/06/11/02:10/001		Water :		Test(s QC Batch # 2004/06/ ite Extracted: 06/11/20	
		QO:Report			





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

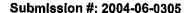
Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

	1.50	В	atch QC Rep	ort	i en	7
Prep(s), 3510/8015M				. 14	19.4	Test(s): 80/15M
Laboratory Control Spik	е		Water		= QC Batch #	2004/06/11-02:10
LOS 2004/06/11-02	10-002		Extracted: 06	711/2004	Analyzed:	06/11/2004 14:15
LCSD 2004/06/11-02	10-003		Extracted: 06	/11/2004	Analyzed:	06/11/2004 14:41

Compound	Conc.	ug/L	Exp.Conc.	Recov	ery %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	7 97	749	1000	79.7	74.9	6.2	60-130	25		
Surrogates(s) o-Terphenyl	16.5	15.4	20.0	82.6	76.9		60-130	0		





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Lagend and Notes

Result Flag

edr

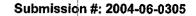
Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
MW-1	06/09/2004 13:00	Water	1
MW-2	06/09/2004 13:22	Water	2
MW-3	06/09/2004 13:17	Water	3



ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Prep(s): 5030B. Test(s): 8260B

Sample ID - MW-1

Sampled: 06/09/2004 13:00

Matrix: Water QC Batch#: 2004/06/15-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	570	50	ug/L	1.00	06/15/2004 15:26	
Methyl tert-butyl ether (MTBE)	11	0.50	ug/L	1.00	06/15/2004 15:26	
Benzene	1.6	0.50	ug/L.	1.00	06/15/2004 15:26	
Toluene	ND	0.50	ug/L	1.00	06/15/2004 15:26	
Ethylbenzene	1.5	0.50	ug/L	1.00	06/15/2004 15:26	
Total xylenes	ND	1.0	ug/L	1.00	06/15/2004 15:26	
Surrogate(s)		J				
1,2-Dichloroethane-d4	103.9	72-128	%	1.00	06/15/2004 15:26	
Toluene-d8	95.4	80-113	%	1.00	06/15/2004 15:26	





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Prep(s): 5030B	And the Charles of the Control of th		
진 이 생 경투를 잃었다면 있다. 그는 그 이 양양을 한 사용을 모르면 살아 있다면 없다.			
E PROMORE TO THE COMPANY OF THE COMP		Test(s): 8260B	THE PARTY AND PROPERTY OF THE PROPERTY OF THE PARTY OF
9:1*4434 CU(O). 13 (XDUOUD 4/8/A/9/-)		168181 02010	The state of the s
医多元性的复数葡萄糖蛋白素 二二二代表的现在分词 网络拉拉斯斯		3753-4	
我们 说 是"是"是"就是我们的是我们的。""我们的我们是这么吃多的。"			
Sample ID: MW.2			
		Lab ID: 2004-06-0305	
2. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1、15. 1			
the state of the s			
Sampled: 306/09/2004 1	a.oo	Extracted 6/15/2004 14:	175 111 (242)
REPORT HOLD CONTRACTOR OF THE PROPERTY OF THE		Experient busy lucidad	113
		7.4	and the second of the second o
10.800000000000000000000000000000000000	ALTON OF THE SECOND OF THE CONTROL OF THE SECOND OF THE SE	QC Batch#: 2004/06/15-01	
Franklind (IX.) R. BWY 2016 (BRAKEN)		- USB DAIGH# /UN4AID/10=U	"ONE CONTRACTOR OF THE PROPERTY OF THE PROPERT
Matrix: Water			AND THE RESERVE OF THE PARTY OF
\$###GEC1415K /- WILL - 5 - 12 836615 TL -			

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
Gasoline	1000	50	ug/L	1.00	06/15/2004 14:46	
Methyl tert-butyl ether (MTBE)	28	0.50	ug/L	1.00	06/15/2004 14:46	
Benzene	8.9	0.50	ug/L	1.00	06/15/2004 14:46	
Toluene	0.55	0.50	ug/L	1.00	06/15/2004 14:46	
Ethylbenzene	ND	0.50	ug/L	1.00	06/15/2004 14:46	
Total xylenes	ND	1.0	ug/L	1.00	06/15/2004 14:46	
Surrogate(s)	1					
1,2-Dichloroethane-d4	101.4	72-128	%	1.00	06/15/2004 14:46	
Toluene-d8	99.6	80-113	%	1.00		



ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

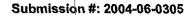
Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Rrep(s): 5080B	Test(s): 8260B
Semple ID MW-3	. LabilD: 2004-06-0305-3
Sampled: +06/09/2004 18:17	: Extracted: \$6/16/2004/1149
Matrix: Water Water	CC Batch#: 2004/06/16-01.68
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	50000	25000	ug/L	500.00	06/16/2004 11:49	dp
Methyl tert-butyl ether (MTBE)	32000	250	ug/L	500.00	06/16/2004 11:49	
Benzene	16000	250	ug/L	500.00	06/16/2004 11:49	l .
Toluene	ND	250	ug/L	500.00	06/16/2004 11:49	
Ethylbenzene	1200	250	ug/L	500.00	06/16/2004 11:49	
Total xylenes	ND	500	ug/L	500.00	06/16/2004 11:49	
Surrogate(s)						
1,2-Dichloroethane-d4	106.2	72-128	%	500.00	06/16/2004 11:49	
Toluene-d8	99.2	80-113	%	500.00	06/16/2004 11:49	





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

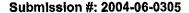
Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

		Batch QC Report	$= 0.7 \times 10^{-3} \mathrm{MeV}_{\mathrm{col}} \mathrm{s}^{-1} + \mathrm{KeV}_{\mathrm{col}} \mathrm{s}^{-1} + \mathrm{KeV}_{\mathrm{col}} $	
'Prep(s): 5030B	Triple - To Visit			Test(s): 8260B
Prep(s): 5030B Method Blank	Actual Control of the	Water	QC Batch # 20	04/06/15-01.62
MB; 2004/06/15	401,62-056		Date Extracted: 0	3/15/2004 07:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/15/2004 07:56	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/15/2004 07:56	
Benzene	ND	0.5	ug/L	06/15/2004 07:56	
Toluene	ND	0.5	ug/L	06/15/2004 07:56	
Ethylbenzene	ND	0.5	ug/L	06/15/2004 07:56	
Total xylenes	ND	1.0	ug/L	06/15/2004 07:56	
Surrogates(s)	Ì	ŀ			
1,2-Dichloroethane-d4	98.2	72-128	%	06/15/2004 07:56	
Toluene-d8	103.8	80-113	%	06/15/2004 07:56	





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

APrep(s) Sq80B		driQC Edipont		Tastis), 8260B
walkininod Blanke as such as the second		- Water 1	7 4 4 V	QC Batch # 2004/06/	24 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MB 2004/06/15 01 68-046	en e	<u> </u>	j, ip	ate Extracted: 06/15/20	04 07:46
Compound	Conc.	RL	Unit	Anaiyzed	Flag
Gasoline	ND	50	ug/L	06/15/2004 07:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/15/2004 07:46	ĺ
Benzene	ND	0.5	ug/L	06/15/2004 07:46	
Toluene	ND	0.5	ug/L	06/15/2004 07:46	
Ethylbenzene	ND	0.5	ug/L	06/15/2004 07:46	
Total xylenes	ND	1.0	ug/L	06/15/2004 07:46	
Surrogates(s)	{			1	
1,2-Dichloroethane-d4	99.2	72-128	%	06/15/2004 07:46	
Toluene-d8	101.0	80-113	%	06/15/2004 07:46	



Submission #: 2004-06-0305

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

			Batch QC Report	
	# Prep(s): /5030B			Test(s): 8260B
			Water	QC Batch # 2004/06/16-01.68
MB: 2004/06/(16-01:68-056 Date Extracted: 06/16/2004 08:5	MB: 2004/06/16	-01:68-056		Date Extracted #06/16/2004/08:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/16/2004 08:56	<u> </u>
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/16/2004 08:56	
Benzene	ND	0.5	ug/L	06/16/2004 08:56	
Toluene	ND	0.5	ug/L	06/16/2004 08:56	
Ethylbenzene	ND	0.5	ug/L	06/16/2004 08:56	
Total xylenes	ND	1.0	ug/L	06/16/2004 08:56	
Surrogates(s)					
1,2-Dichloroethane-d4	95.2	72-128	%	06/16/2004 08:56	
Toluene-d8	99.0	80-113	%	06/16/2004 08:56	





ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

t a market	: Batch QG Report	
Prep(s): 5030B		Test(s) \$260B
Laboratory Control Spike	Water	QC Batch # 2004/06/15-01.62
CLGS © 2004/06/15-01:62-012	Extracted: 06/15/2004	Analyzed: 06/15/2004 07:12
LGSD 2004/06/15-01/62-034	Extracted: 06/15/2004	Analyzed: 06/15/2004 07:34

Compound	Conc.	ug/L	Exp.Conc.	Recovery % RPD Ctrl.				ilts %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Methyl tert-butyl ether (MTBE) Benzene Toluene	27.6 26.0 26.8	24.8 26.1 26.9	25.0 25.0 25.0	110.4 104.0 107.2	99.2 104.4 107.6	10.7 0.4 0.4	65-165 69-129 70-130	20 20 20			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	466 503	458 509	500 500	93.2 100.6	91.6 101.8		72-128 80-113				



Submission #: 2004-06-0305

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

	Batch QC Report	
Přep(s):5030B	(A)	Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2004/06/15-01.68
LGS 2004/06/15=01\68-009	Extracted: 06/15/2004	Analyzed: 06/15/2004 07:09
LCSD 2004/06/15-01:68-028	Extracted: 06/15/2004	Analyzed: 06/15/2004 07:28

Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Methyl tert-butyl ether (MTBE) Benzene Toluene	24.8 25.0 26.4	23.0 25.6 27.5	25.0 25.0 25.0	99.2 100.0 105.6	92.0 102.4 110.0	7.5 2.4 4.1	65-165 69-129 70-130	20 20 20			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	471 482	436 475	500 500	94.2 96.4	87.2 95.0		72-128 80-113	I i i			



ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

12VU4/		* Lacing September 200	O.C.S. DETERMINED		meigraphe harmin		
LCSD 2004/	06/16-01.68-03	712 2 3 3 3 3 3 3	Extracted:	06/16/2004	包. 各 外基 6	Analvzed⊬06	/16/2004 08:37
AND THE RESERVE AND THE PARTY OF THE PARTY O	06/16-01.68-01		/> Extraotedi			100	/16/2004 08:18
Laboratory Con			Wate	<u>r</u>	= QC) Batch #/20	04/06/16-01:68
Carried Superior			$F \circ Y \circ Y \cap$		$\mathcal{F}_{\mathcal{F}_{i}} =$		
Prep(s): 5030B			第一次	4、排化。	5, 6	+ 2 7 4	Test(s): 8260B
		**//2014 L					T. V
			Batch QC R	aport V		4. 4.	

Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.7	22.2	25.0	94.8	88.8	6.5	65-165	20		
Benzene	24.8	24.9	25.0	99.2	99.6	0.4	69-129	20		
Toluene	25.7	24.5	25.0	102.8	98.0	4.8	70-130	20	ı	
Surrogates(s)					1					
1,2-Dichloroethane-d4	470	427	500	94.0	85.4		72-128			
Toluene-d8	491	506	500	98.2	101.2		80-113			



Submission #: 2004-06-0305

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100 Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6551-001.00

Guy Gas & Diesel

Received: 06/09/2004 17:15

Site: San Leandro

Legend and Notes

Analysis Flag

0

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

đр

Sample contains discrete peak in addition to gasoline.

Severn Trent Laboratories, Inc.

SEVERN TRENT

STL San Francisco Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 86724

Date 1-00-04 Page 1 of /

	Report To			"when the w	Ž. Ž-vršikus≻	September 199	iania n. n	. Local military	Process	Yet restants	ing parties	-	Telepoplus Serie		alveis	s Reg	isi., g		` ~ <u>-</u> - `			NYS TOLERS SERVE	Town of the state of	> . .	* 7',**	
1.	Company ACC EM/	and the same of the same of	al con	SULT#	WIS	in Themps			Ū ×3				P. BREWE	A Company	Pt = 30t			See				7. 表面	R. S. C.			
	Address: 7977 CAPW	ELL DRIVE,	OAKLAI	ND, C		矍		1 8 ±			9	1	wine	38	9.		ReR		9		2	j . /3		A PARTICIPATION OF THE PARTICI		ĥ
,	Phone: (510) 538-8460 Email:	Да	ides (gacce	nv.com	125 2 ×		100 100 100 100 100 100 100 100 100 100	8	ŧ	8 88	23	Page 1	8087 8082		1		,		THE STATE OF THE S	20 00 00		, u	The state of the s		4000
-	ENVIRONMENTAL:	Sampled By	$^{\epsilon}Q$		TRA.	ō la	69 19 19 19 19 1 m	1000 1000 1000 1000	A BANG COM CONTRA	FOR Y	Anica SCIVIS (VCCs)	SZO CI OS	ase D Petroleum	C EFA 8081 C 908	D exagin	A BOYON ATOTATA			alen Chromin h hold line (or HsO)	5	DE DESCUENCE DE DESCUENCE DE CONTROL DE CONT	· .				ontaine
e e e e e	Alth AACE V	Phone ext	X/02	केंग्र	prákky mělitví Pres ervi			TEON SPA BUT SWITE SHILLS CAN	記録の発出	Pleasable (HVOOs) B	O WAN	Semivada D EPA 92	O SIM Green	Pesikides PCBs	Pleas by	W. E. M.	Melais, El Lend El Lifet Ercky El Onnak	<u> </u>	E CO	\$2	00 20 20		% 1/2	***************************************		Number of Contambre
3.0	MIT-T	64		1.3	PLL.	\V.					30	au.	Q.#.	6. 4		30	20	00	0.0	EG	. 4€ % \	<u> </u>			·	
	11111-2	6-9	137	of the Personal Principle		k		13		1			, ,				<u> </u>				- 504	V			****	4
	MN-3	10-0	137	I J	V	1		X														XX	Sa			4
	**							Brown Sact Theory	and commence		14 Marie 2000 C. A. (4)	***************************************	**************************************		Shell House at a	**************************************				\$ 20,000,000,000 FC \$	r- Whosp		*		en etnik ve	7
		<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>			1		~ , .x.	;						916.									***	
			1							/ ~~ ;		ĺ		ŕ						í						
		Ny		ķ i					, i					,	ં જ્યાવર્ષ				,	h						
)			ا ن		\		<u> </u>														
1			i .	,				7	·	12		•	:	7												
	Project Info		Samp	ie R	eceip!	HHH Aven	1 Loren model	3) Re	mausk	A / eyloy/			.etve	7	elinguis	hed by:	il l			3)	Relingu	ished by		<u></u>		_
3	Project Name: A	i Le Ampo E C	#of Co	lame		i jest a and	1 () () () () () () () () () (Signa	<u> 26 /</u>	13		2:02			odn	hed by OL			加	_						-
	651 001.00		Head S	pace:					. 6	ks.		, -0P -	1000 Straine 100 9					lof-	Signature Time					me	-	
	Credit Card#		Temp	3	***	>		ACCE	NVIRO		TALICO	Dat NSULT	_	1,00	i nai T_S	ie '		(T)	ate /	Printed Name Date					*	
	CASAN SERVE	Ĭ	Contorn	is to n	cord:	*		Comp	any			\$. .		Com	pany	}				- E	mpany				***	-
	A Std 5 725 48	24h	Other,	,,,,,,,,			-	TO.	Fred 5	W		(Indi		2) Re	cepted /// /			ر دومون او	سنييم	3) Received by:						-
-	Report of Routine Dites Special Instructions / Commis	rel 3 II Lave	H DE	DD C	State Te Global ID	kFund El	OF	FIT	抓	KHI N		浦	1	Sign		Ho!	N	171 Tim 6/4	(0) jr	Sig	nature			Th	NĢ	-
								阿蒙	Xeine	7	***			論	ed Nam	ė	-	Đε	ite	Par	ited Na	ne`		Ð	ate	-
-	***************************************							Colda	ŊĽ,)	· · ·			Comp	any	-37	<u>L-</u>	SF	-	Con	mozay_	·····				-
									Action Control		ANTICOMA SELEC		Character of the Control of the Cont	-				ep. tegenosee	an majan ja 1	7.8	en siji	ASTERONOM CONTRACTOR	VICTORIZATIO	HARRIST CONTRACTOR	Rection	n# 1