

Ro. 341



3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916.638-2085
FAX: 916.638-8385

February 14, 2002

Ms. Eva Chu
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

FEB 21 2002

Subject: *Interim Corrective Action*
Former Chevron Service Station #9-1153
3126 Fernside Boulevard, Alameda, California

Dear Ms. Chu,

Delta Environmental Consultants, Inc. (Delta) has been authorized by Chevron Products Company (Chevron) to perform interim corrective action (ICA) at the above referenced site. This activity was conducted as part of the implementation of Delta's *Workplan for Interim Corrective Action at Former Chevron Service Station #9-1153*, dated June 25, 2001. Alameda County Health Care Services (ACHCS) approved the workplan in an electronic mail message dated July 9, 2001. The objectives of ICA are to remove and mobilize separate phase hydrocarbons (SPHs) and to extract impacted groundwater and vapor phase hydrocarbons from well C-1. The location of the site is shown on Figure 1 and site features are shown on Figure 2.

On January 22, 2002, a Delta representative was onsite to oversee the extraction of SPH from well C-1. Integrated Wastestream Management, Inc. (IWM) was contracted by Delta to perform the extraction activities. Prior to extraction activities, C-1 was measured for SPH thickness. SPH was present in well C-1 at a thickness of 0.10 feet. Depth-to-water (DTW) was also measured in wells C-1, C-3, MW-4, MW-6, MW-7, and MW-9. Wells MW-5 and MW-8 were later measured when access was possible. The DTW ranged between 1.53 and 3.58 feet below top-of-casing (TOC). During extraction activities, approximately 400 gallons of hydrocarbon-impacted groundwater were extracted. Extracted vapor phase hydrocarbons were treated through a 250-pound granulated activated charcoal (GAC) canister and discharged to the atmosphere. The SPH thickness and DTW measurements are presented in Table 1.

Extracted groundwater was transported as non-hazardous waste to McKittrick Waste Treatment in McKittrick, California for disposal. The GAC canister will be transported by IWM and disposed of at US Filter in Los Angeles, California. A copy of the Certificate of Disposal is attached.

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Prior to next scheduled extraction, Delta will notify ACHCS and the property owner 48 hours in advance. If you have questions or comments regarding this letter, please contact Todd Del Frate at (916) 536-2612.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



William Slowik
Staff Scientist



Todd Del Frate
Project Manager

WS (Lrp008-9-1153.doc)

Attachments: Figure 1
Figure 2
Table 1
Certificate of Disposal

cc: Mr. Tom Bauhs – Chevron Products Company
Mr. Mark Hom, 3135 Gibbons Boulevard, Alameda, California



R4 W.

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND EAST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



SCALE 1:24,000



QUADRANGLE LOCATION

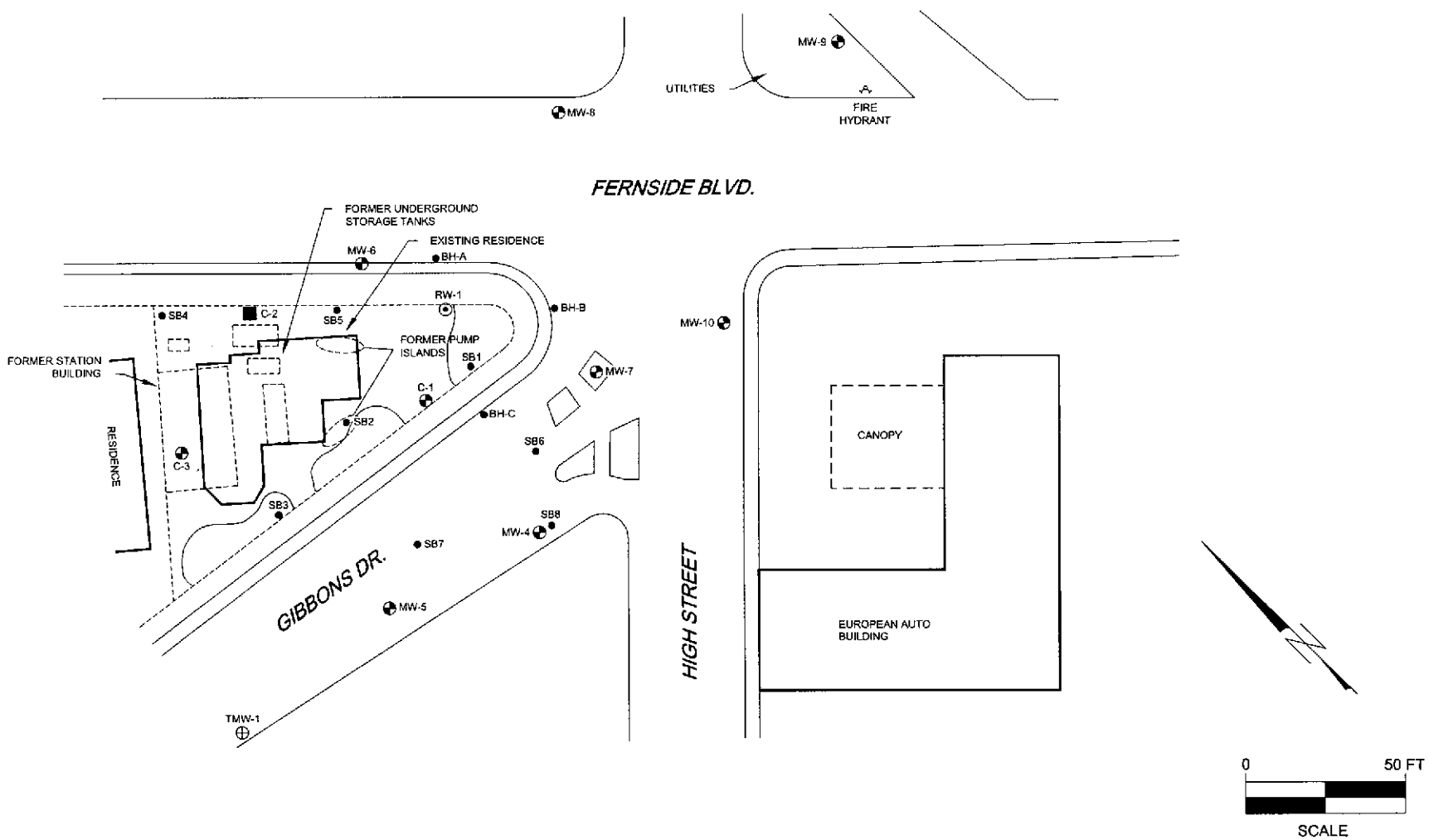
FIGURE 1

SITE LOCATION MAP

CHEVRON STATION NO. 9-1153
 3126 FERNside BOULEVARD
 ALAMEDA, CA.

PROJECT NO. DG91-153	DRAWN BY M.L. 6/20/01
FILE NO. DG91153A	PREPARED BY TAD
REVISION NO. 1	REVIEWED BY





LEGEND:

- ⊕ MW-4 MONITORING WELL LOCATION
- ⊙ RW-1 EXTRACTION WELL LOCATION
- C-2 ABANDONED WELL LOCATION
- ⊕ TMW-1 TEMPORARY MONITORING WELL LOCATION
- SB1 SOIL BORING LOCATION

FIGURE 2
SITE MAP

CHEVRON SERVICE STATION NO. 9-1153
3135 GIBBONS DRIVE
ALAMEDA, CA.

PROJECT NO. DG91-153	DRAWN BY M.L. 9/17/01
FILE NO. 9-1153 Site	PREPARED BY B.B.
REVISION NO. 2	REVIEWED BY



TABLE 1

GROUNDWATER MONITORING RESULTS

Chevron Station 9-1153
3126 Farnside Boulevard
Alameda, California

Well ID	Date Measured	SPH (ft)	DTW/(T ₀) (ft)	DTW/(T ₁) (ft)	DTW/(T ₂) (ft)	DTW/(T ₃) (ft)	DTW/(T ₄) (ft)	DTW/(T ₅) (ft)	DTW/(T ₆) (ft)	DTW/(T ₇) (ft)	DTW/(T ₈) (ft)
C-1	8/16/2001 ¹	1.75	4.38/(0904)	6.15/(1440)	5.8/(1445)	5.44/(1450)	5.23/(1455)	5.05/(1500)	4.92/(1505)	4.72/(1510)	----
	10/02/01	0.07	----	----	----	----	----	----	----	----	----
	11/15/01	0.00	3.92/(0912)	----	----	----	----	----	----	----	----
	12/18/01	0.00	1.79/(0842)	----	----	----	----	----	----	----	----
	01/22/02	0.10	2.36/(914)	----	----	----	----	----	----	----	----
C-3	08/16/01	----	5.38/(0909)	4.81/(1425)	----	----	----	----	----	----	----
	10/02/01	----	4.61/(0858)	4.83/(1130)	5.01/(1212)	5.12/(1300)	5.74/(1425)	----	----	----	----
	11/15/01	----	4.10/(0929)	4.45/(1112)	4.68/(1214)	4.75/(1313)	4.80/(1348)	----	----	----	----
	12/18/01	----	2.00/(0850)	2.43/(1107)	2.55/(1206)	2.56/(1303)	2.59/(1402)	----	----	----	----
	01/22/02	----	2.68/(1032)	2.78/(1110)	2.88/(1221)	2.96/(1328)	2.95/(1417)	----	----	----	----
MW-4	08/16/01	----	3.61/(0846)	3.83/(1410)	----	----	----	----	----	----	----
	10/02/01	----	3.91/(0912)	4.02/(1124)	4.08/(1205)	4.24/(1307)	4.47/(1432)	----	----	----	----
	11/15/01	----	3.25/(0945)	3.35/(1100)	3.40/(1205)	3.44/(1259)	3.42/(1356)	----	----	----	----
	12/18/01	----	2.12/(0855)	1.64/(1104)	1.65/(1213)	1.72/(1309)	1.68/(1353)	----	----	----	----
	01/22/02	----	1.53/(949)	1.61/(1106)	1.73/(1216)	1.80/(1325)	1.81/(1412)	----	----	----	----
MW-5	08/16/01	----	3.4/(0848)	3.5/(1415)	----	----	----	----	----	----	----
	10/02/01	----	3.76/(0915)	3.89/(1120)	3.85/(1203)	3.92/(1308)	4.14/(1434)	----	----	----	----
	11/15/01	----	3.06/(0950)	3.16/(1101)	3.21/(1206)	3.24/(1300)	Inaccessible	----	----	----	----
	12/18/01	----	Inaccessible ²	----	----	----	----	----	----	----	----
	01/22/02	----	Inaccessible ²	0.70/(1123)	1.07/(1218)	1.20/(1327)	1.22/(1415)	----	----	----	----
MW-6	08/16/01	----	5.27/(0854)	4.43/(1030)	4.61/(1100)	4.70/(1130)	4.76/(1200)	4.80/(1230)	4.90/(1300)	4.92/(1330)	4.94/(1400)
	10/02/01	----	5.99/(0900)	4.96/(1127)	5.36/(1210)	5.53/(1303)	6.66/(1427)	----	----	----	----
	11/15/01	----	5.78/(0917)	4.90/(1105)	5.06/(1209)	5.15/(1303)	5.23/(1351)	----	----	----	----
	12/18/01	----	2.43/(0925)	3.04/(1109)	3.15/(1208)	3.22/(1305)	3.28/(1351)	----	----	----	----
	01/22/02	----	2.62/(953)	3.46/(1110)	3.71/(1224)	3.85/(1331)	3.75/(1420)	----	----	----	----

TABLE 1

GROUNDWATER MONITORING RESULTS

Chevron Station 9-1153
3126 Fernside Boulevard
Alameda, California

Well ID	Date Measured	SPH (ft)	DTW/(T ₀) (ft)	DTW/(T ₁) (ft)	DTW/(T ₂) (ft)	DTW/(T ₃) (ft)	DTW/(T ₄) (ft)	DTW/(T ₅) (ft)	DTW/(T ₆) (ft)	DTW/(T ₇) (ft)	DTW/(T ₈) (ft)
MW-7	08/16/01	----	5.19/(0843)	4.68/(1030)	4.71/(1100)	4.79/(1130)	4.8/(1200)	4.84/(1230)	4.90/(1300)	4.88/(1330)	4.85/(1400)
	10/02/01	----	5.41/(0910)	4.96/(1125)	5.11/(1207)	5.27/(1310)	5.81/(1436)	----	----	----	----
	11/15/01	----	4.38/(0936)	4.62/(1103)	4.71/(1207)	4.75/(1301)	4.85/(1354)	----	----	----	----
	12/18/01	----	2.93/(0920)	3.28/(1108)	3.34/(1211)	3.38/(1307)	3.38/(1354)	----	----	----	----
	01/22/02	----	3.12/(946)	3.32/(1108)	3.40/(1214)	3.45/(1323)	3.48/(1407)	----	----	----	----
MW-8	08/16/01	----	3.00/(0816)	4.30/(1420)	----	----	----	----	----	----	----
	10/02/01	----	4.57/(0903)	4.56/(1126)	4.54/(1208)	4.54/(1305)	4.56/(1430)	----	----	----	----
	11/15/01	----	4.10/(0945)	4.10/(1108)	4.10/(1211)	4.10/(1310)	4.10/(1353)	----	----	----	----
	12/18/01	----	2.10/(0930)	2.16/(1111)	2.16/(1210)	2.16/(1306)	2.16/(1359)	----	----	----	----
	01/22/02	----	Inaccessible ²	Inaccessible ²	3.71/(1227)	3.07/(1334)	Inaccessible ²	----	----	----	----
MW-9	08/16/01	Unable to Locate									
	10/02/01	Unable to Locate									
	11/15/01	Unable to Locate									
	12/18/01	Unable to Locate									
	01/22/02	----	3.58/(1007)	3.59/(1113)	3.60/(1230)	3.61/(1336)	3.63/(1429)	----	----	----	----
MW-10	08/16/01	Inaccessible									
	10/02/01	Inaccessible									
	11/15/01	Inaccessible									
	12/18/01	Inaccessible									
	01/22/01	Inaccessible									

Note: This table represents DTW measurements recorded during extraction activities to evaluate vacuum influence on outlying wells

SPH = separate phase hydrocarbons

DTW = depth to water

¹ DTW measurements recorded every 5 minutes for 30 minutes after extraction activities to evaluate groundwater recharge

² inaccessible at time due to parked car over well box.

(T₀) = initial DTW measurement

---- = not applicable/not measured



INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408.942.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Chevron Products Company
Address: 6001 Bollinger Canyon Road
San Ramon, CA 94583
Contact: Bob Cochran
Phone: 925-842-9500

Facility Name: Chevron #9-1153
Address: 3126 Fernside Blvd
Alameda, CA
Facility Contact: Brett Bardsley, Delta Environmental
Phone: 916-638-2164

IWM Job #:	<u>91889-BW</u>
Description of Waste:	<u>400 Gallon(s) of</u> <u>Non-Hazardous</u> <u>Water</u>
Removal Date:	<u>January 22, 2002</u>
Ticket #:	<u>MCK220102-CH</u>

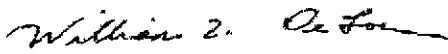
Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: McKittrick Waste Treatment
Address: 56533 Hwy 58 W
McKittrick, CA 92351
Phone: (661) 762-7366

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon 
Authorized Representative (Print Name and Signature)

1/22/02
Date