5.0 INVESTIGATION SUMMARY AND CONCLUSIONS

The exhaustive review of historical data (including scientific studies, corporate records and regulatory reports), the georeferencing of historical features with the current physical disposition of the Mine Site, the physical mapping of site features such as tailings piles and surface water drainage, and the collection of surface water samples, including the comparison to historical data set, combine to paint a detailed physical picture of current Mine Site conditions. With the exception of some specific data requirements, the collection of which is outlined in the following Section 6.0, all the necessary information needed to formulate a presumptive remedial design and for the preparation of a Remedial Action Plan for the Mine Site is available.

Both historical documentation and surface water analytical data collected in 2010 support the conclusion that the majority (93% based on Slotton, 1995 Calculations) of the mercury mass loading from the Mine Tailings into the Marsh Creek Watershed originates via runoff over and through Bradley Mining Company operation derived waste rock and tailings piles that flows into the Lower Pond and then into Dunn Creek. The primary path from the mining waste is through overland flow into nearby creeks which subsequently leads into the greater Marsh Creek Watershed. The works of Slotton (Slotton, 1995) and of SGI's surface water sampling in 2010 have quantified the concentrations of mercury and other chemical constituents emanating from the various Mine Site features via overland water flow. The water from My Creek, along with the Dunn Creek water above the retention ponds, have no detectable mercury concentrations and have a chemical signature distinct from the water that had come in contact with the Bradley tailings piles. My Creek collects drainage water from the Northern Waste Dump, an area where potentially some of waste rock from Cordero operations has been deposited. The lack of detectable mercury concentrations in My Creek supports the assertion that Cordero operations in that area did not produce waste rock with significant quantities of mercury ore.

6.0 DATA GAPS AND FUTURE WORK

Information collected over the last fifty years at and around the Mine allow for development of a presumptive remedy. Based on the investigation work conducted to date, the following data gaps are indicated that should be filled prior to development of a RAWP and Preliminary Design:

- A topographic survey of the Site that represents the current land configuration;
- The character of water believed to be discharging from the Adit prior to encountering waste rock, tailings or atmosphere;
- The character and potential flow pathway of water present in the DMEA/Cordero workings; and
- Confirmation surface water sampling is needed for some sampling points that, due to variable rainfall and runoff conditions, have only been sampled once in the past.

Collection of data and information to fill these data gaps will allow for development of a RAWP and Preliminary Design for the Mine. The following sections detail the work proposed to address these data gaps.

6.1 Additional Characterization

Additional characterization planned by Sunoco includes the following additional work elements that will fill the data gaps identified above allowing development of a RAWP and Preliminary Design Document. These include:

- A detailed topographic survey of the Mine Site;
- Sampling of mine waters present in the Adit prior to mixing with the atmosphere or mine waste via installation of a monitoring well;
- Sampling of mine waters present in the former Cordero tunnels via installation of a monitoring well;
- Measuring and evaluation of gradients between Cordero mine tunnels and the Adit water via transducer monitoring of installed monitoring wells; and
- Confirmation surface water sampling when conditions allow.

The following sections provide detailed descriptions of these scope items to be conducted by Sunoco.

6.1.1 Topographic Survey

A topographic map of the Mine Site with a two-foot contour resolution will be prepared by an aerial mapping service. Significant features such as buildings, mine workings, and other property features will also be surveyed. This map will be used to aid in determining surface slope angles

and volumes of the existing tailings piles. Additionally, the topographic map will be used to confirm the georeferenced historical site features with their current locations, which will be used in the placement of two groundwater wells, and should optimize the chances for intercepting mine features at depth.

6.1.2 Confirmation Surface Water Sampling

Two confirmation surface water sampling events will be conducted between now and the first winter rains of 2010. Initial sample collection activities will be limited to the ponds and the flowing springs and creeks as practical. Additional surface water sampling events will occur during the winter of 2010-2011 following the first significant rainfall event, and will include sampling from all sixteen sampling locations as is practical based on field conditions. These sampling events will be used to confirm the data collected in April and May of 2010, and to quantify surface water runoff from the Mine Site during different times of the year, including the end of the dry season and first runoff at the beginning of the winter rainy season. The surface water samples will be collected and analyzed in an identical fashion to the samples collected in April and May of 2010 as described in Section 3.0 of this report.

6.1.3 Monitoring Wells

6.1.3.1 Adit Sampling

The Adit Spring has been so named as it has been postulated that the source of the water is from the Bradley Mining Company underground mine workings 165-foot Adit that extends more than 300-feet from the main underground complex to its outlet on the hill slope above the Lower Pond. This Adit opening has long been covered by mine tailings, but still serves as a conduit for water in the Mine to surface and then free flow into the Lower Pond.

It is proposed to install a well that will intersect the buried Adit at depth in order to obtain a representative water sample of Adit water prior to its interaction with mine waste and the atmosphere. Additionally, the well will be used to install a pressure transducer to monitor water levels/flow through the Adit. Ideally, this well will extend through to the floor of the Adit and into a sump which would allow for the collection of water samples via a small submersible pump. The exact placement of the well will be aided by the topographic survey data described in Section 6.1.1.

6.1.3.2 DMEA/Cordero Tunnel Sampling

Cordero only operated at the 360 Level of the underground mine workings, which are currently presumed to be flooded. Collecting a water sample from the 360-foot workings could help identify the quality of the water that is sourced from this level of the Mine. This data could then be compared to the data collected from the 165-foot Adit to determine the relative contribution of

mercury loading from the 360 Level, if any, emanating from the Adit Spring (it is presumed that the Cordero workings at the 360 Level are connected to the Bradley underground workings via a sloped tunnel called the 'Main Winze'). The well would be placed near the original DMEA Shaft (the entrance to the 360-foot underground workings level) to maximize the opportunity to intersect one of the former 360 Level tunnels. Once the well is complete, it will be equipped with a pressure transducer to monitor water levels and a submersible pump for the collection of groundwater samples. The exact placement of the well will be aided by the topographic survey data described in Section 6.1.1.

6.2 Development of Remedial Action Work Plan and Preliminary Remedial Design

Based on the results presented in this report, combined with data collected as outlined in Section 6.1 above, Sunoco will develop a Remedial Action Workplan and Preliminary Design Document compliant with the conditions in CRWQCB Order R5-2009-0869. This document will be of sufficient depth and detail to allow competent development of remedial action costs, and allow eventual preparation of detailed implementation plans for the parties eventually conducting the work.

Scope elements to be included are as follows:

- Capping Plan for Waste Rock and Tailings;
- Drainage and Capping Plan for Ponds;
- Storm and Spring Water Drainage Design Plan;
- Adit Water Discharge Capture and Re-routing Plan; and
- Conceptual Adit Water Discharge Treatment Preliminary Design.

7.0 REFERENCES

Blomberg, Vic., 1955, Letter to Joseph S. Gorlinski, Central Valley Water Pollution Control Board, August 10, 1954.

Blomberg, Vic, 1955, Letter to Joseph S. Gorlinski, Central Valley Water Pollution Control Board, April 4, 1955.

California Division of Mines, 1958, California Journal of Mines and Geology, Mercury in Contra Costa County, Vol. 54, No. 4, October 1958, pp.530-535.

California Regional Water Quality Control Board (CRWQCB). 2008a. Screening for Environmentall Concerns at Sites with Contaminated Soil and Groundwater. Interim Final. May.

CRWQCB. 2008b. Central Valley Regional Water Quality Control Board, A Compilation of Water Quality Goals. July.

CRWQCB. 2009. Revised Order to Sunoco Inc. To Submit Investigative Reports Pursuant to Water Code Section 13267, Mount Diablo Mine, Contra Costa County. December 30.

Cordero Mining Company. 1954. Lease Document with Mt. Diablo Quicksilver Company, Executed November 1.

Jovenitti, J.L., Weiss Associates, and Wessman, J. 1989. Mount Diablo Mine Surface Impoundment Technical Report. June 30.

Knox, Newton Booth, May, 1938, University of California Thesis, The Geology of the Mt. Diablo Mine.

Pampeyan, E. H. and Sheahan B. H. 1957. Final Report DMEA- 2448; Idm-E544 (Mercury), Mt. Diablo Quicksilver Mine, Contra Costa County, California.

Pampeyan, E. H. 1963. Geology and Mineral Deposits of Mount Diablo, Contra Costa County, California, Unites States Geological Survey, Special Report 80, California Division of Mines and Geology.

Schuette, C. N. 1954. Letter to DMEA dated March 5, 1954.

Sheahan, B. H. 1956. Interim Report DMEA-2448 (Mercury), Mt. Diablo Quicksilver Mine, Contra Costa County, California. March 6.

Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1996. Marsh Creek Watershed 1995 Mercury Assessment Project, Final Report, 66 pgs. March

Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1997. Marsh Creek Watershed Mercury Assessment Project – Second Year (1996) Baseline Data Report, 31 pgs. July.

Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1998. Marsh Creek Watershed Mercury Assessment Project – Third Year (1997) Baseline Data Report with 3-Year Review of Selected Data, 62 pgs. June.

Smith, Ronnie B., 1951, Letter to Arthur J. Inerfield, Assistant Executive Officer, Central Valley Water Pollution Control Board, December 8, 1951.

The Source Group, Inc. (SGI). 2009. Final Summary Report For Removal Action to Stabilize The Impoundment Berm. January 28.

Ross C. P. 1940. Quicksilver Deposits of the Mount Diablo District, Contra Costa County, California .U.S. Geo. Survey Bull. 922-B.

U.S. Environmental Protection Agency (USEPA). 2009a. National Recommended Water Quality Criteria. Office of Water. Office of Science and Technology.

USEPA. 2009b. ProUCL Version 4.00.04 [Software, accompanied by "ProUCL User's Guide."] Draft. Prepared for USEPA by Lockheed Martin Environmental Services. February.

Water Pollution Control Board (WPCB). 1954. Activity Report – Mt. Diablo Mine, Arthur J. Inerfield (A.J.I.). November 3.

WPCB. 1954. Activity Report – Mt. Diablo Mine, Arthur J. Inerfield (A.J.I.). March 12.

WPCB. 1955. Activity Report – Mt. Diablo Mine, Arthur J. Inerfield (A.J.I.). May 25.

WPCB. 1955. Activity Report – Mt. Diablo Mine, Arthur J. Inerfield (A.J.I.) and W.D.B. April 8.

WPCB. 1955. Activity Report – Mt. Diablo Mine, CTC. July 18.

FIGURES

SGI environmental THE SOURCE GROUP, INC. 3451 C VINCENT ROAD PLEASANT HILL, CA 94523	SCALE: 0 MILES 0.5	SITE LOCATION MAP
	SITE: SUNOCO MT. DIABLO MERCURY MINE	DATE: 12/05/08
MAP SOURCE: U.S.G.S.	LOCATION: 2430 MORGAN TERRITORY ROAD CLAYTON, CALIFORNIA	FIGURE: 1-1

LEGEND
- Mine Structure (1953)
- Spring
- Pond (2004 Outline)

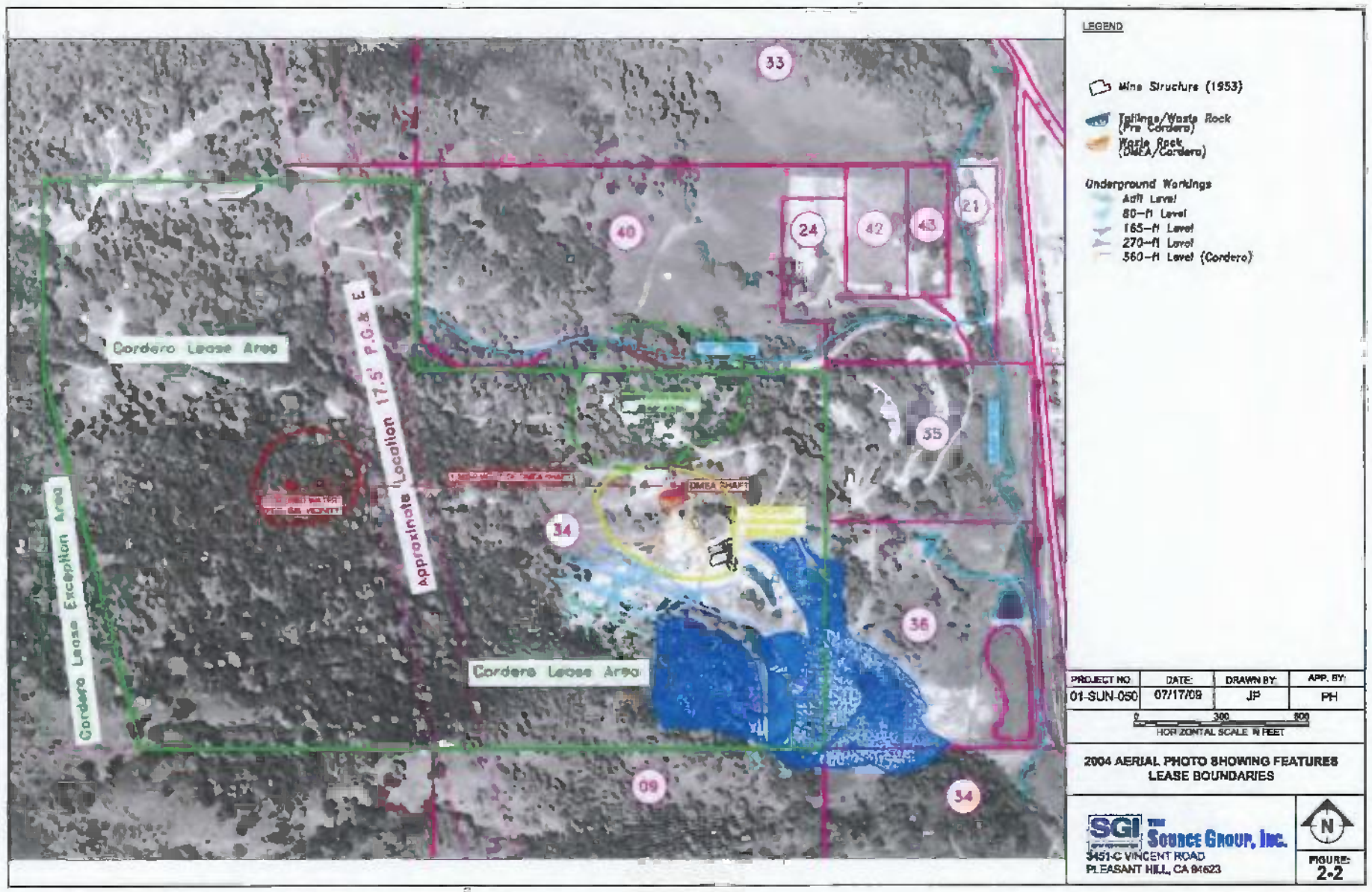
Source Group, Inc.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

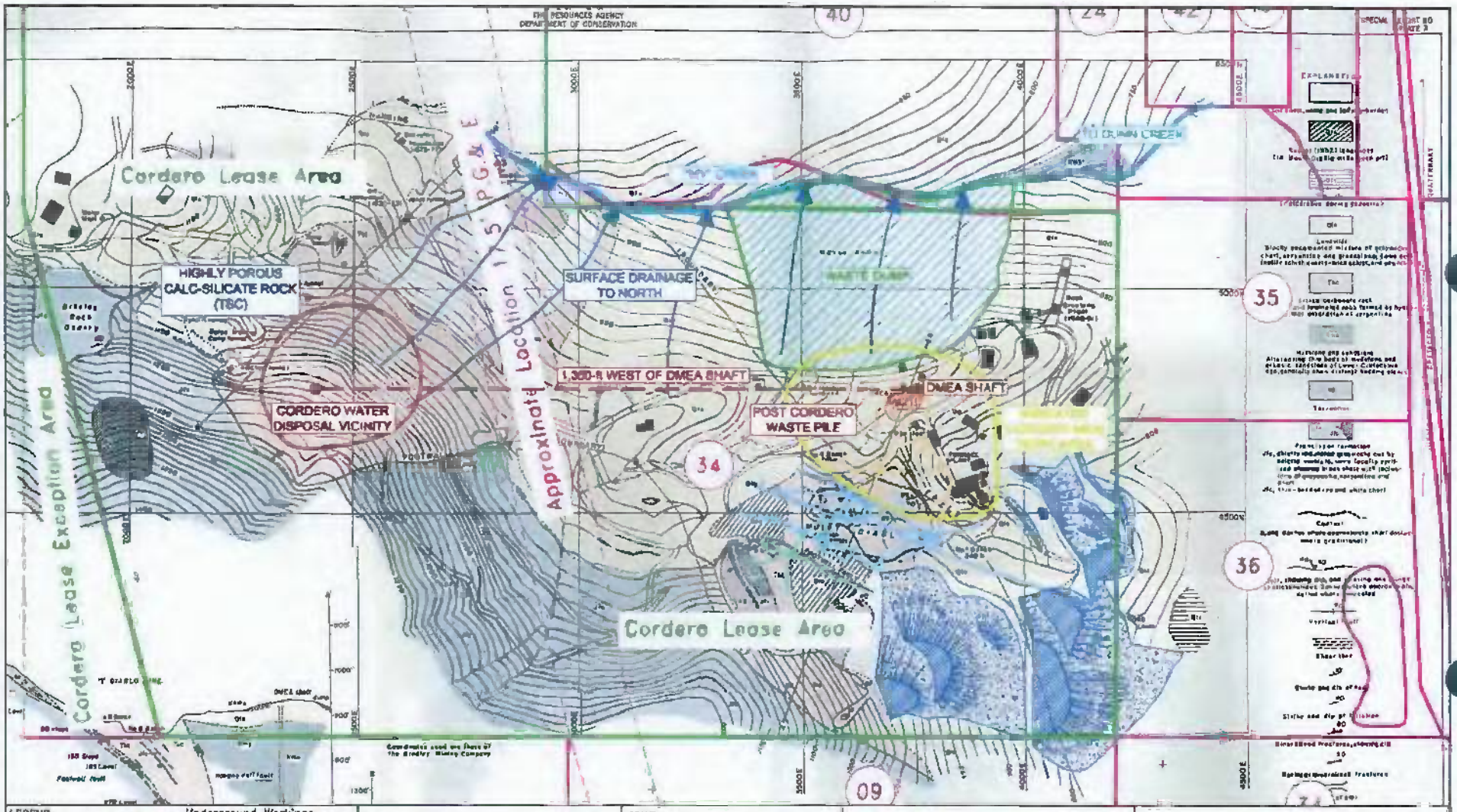
SCALE
0 150 300
SCALE IN FEET

MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

2004 AERIAL PHOTO OF
MT DIABLO MINE SITE

FILE NAME	DATE	DR. BY	APP. BY	PROJECT NO.	FIGURE NO.
Mine Features Map.dwg	5/4/09	JP	PH	01-SUN-050	2-1


LEGEND
Mine Structure (1953)
Tailings/Waste Rock (Pre Cordero)
Waste Rock (OMEA/Cordero)
Underground Workings
Adit Level
80-ft Level
165-ft Level
270-ft Level
560-ft Level (Cordero)
Cordero Lease Area
Approximate Location 17.5' P.G.& E.
Cordero Lease Exception Area
Cordero Lease Area
OMEA SHAFT
33
40
24
42
43
21
35
34
36
09
34
PROJECT NO: 01-SUN-050
DATE: 07/17/09
DRAWN BY: JP
APP. BY: PH
0 300 600
HORIZONTAL SCALE IN FEET
2004 AERIAL PHOTO SHOWING FEATURES LEASE BOUNDARIES
SGI The Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523
N
FIGURE: 2-2



LEGEND

Mine Structure (1953)

Tailings/Waste Rock (Pre Cordero)

Waste Rock (DMEA/Cordero)

Underground Workings

- Adit Level
- 80-ft Level
- 165-ft Level
- 270-ft Level
- 360-ft Level (Cordero)

THE SOURCE GROUP, INC.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

SCALE

0 200 400

SCALE IN FEET

MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

DMEA MAP SHOWING PRE- AND POST- DMEA/CORDERO MINE FEATURES

FILE NAME	DATE	DR. BY	APP. BY	PROJECT NO.	EXHIBIT
Mine Features Map.dwg	4/14/09	JP	PH	01-SUN-050	2-3

3/108 2.54

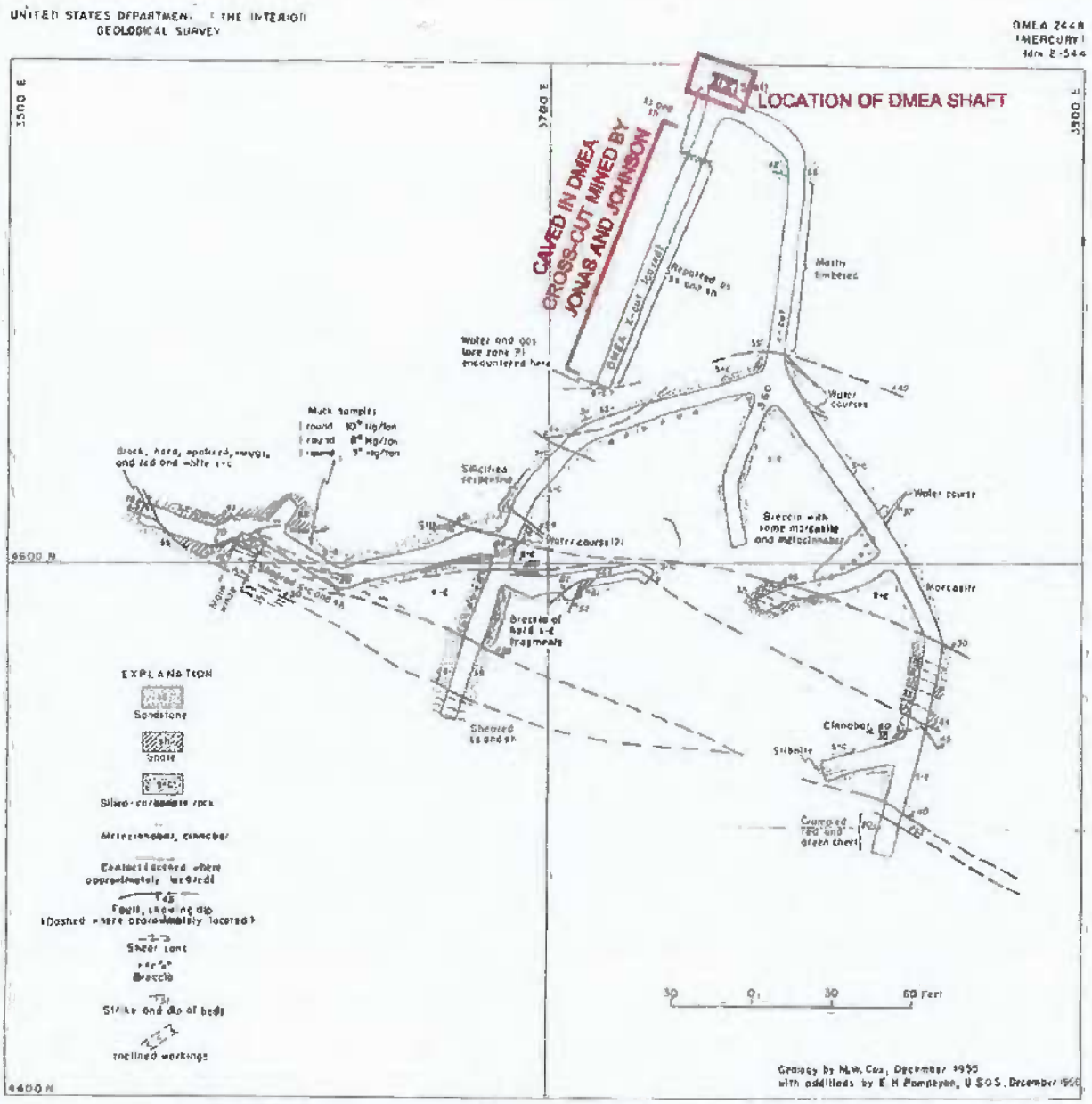


Figure 3 GEOLOGIC PLAN OF 360 LEVEL, MT DIABLO QUICKSILVER MINE
CONTRA COSTA COUNTY, CALIFORNIA

SGI environmental THE SOURCE GROUP, INC. 3451-C VINCENT ROAD PLEASANT HILL, CA 94523	PROJECT NO.: 01-SUN-050	DATE: 07/16/09	DR.BY: JP	APP BY: PH	0 60 120 HORIZONTAL SCALE IN FEET
				PLAN VIEW OF CORDERO TUNNEL SYSTEM	N
					FIGURE: 2-4

3-90/597

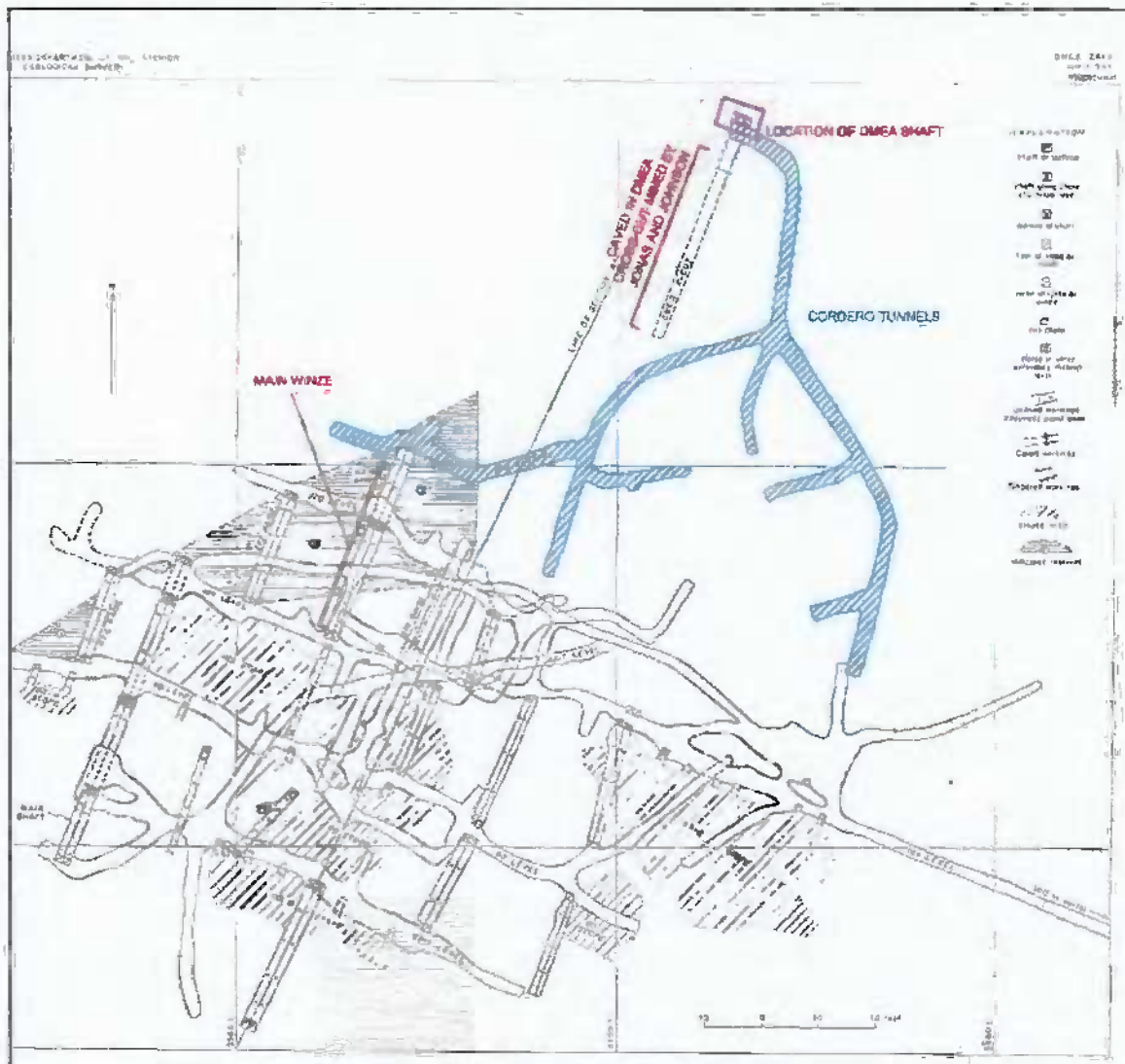


Figure 4 COMPOSITE MAP OF MILL WORKINGS, MT DIABLO MINE
CONTRA COSTA COUNTY, CALIFORNIA

LEGEND

Cordero Workings

PROJECT NO.	DATE:	DRAWN BY:	APP. BY:
01-SUN-050	07/16/09	JP	PH

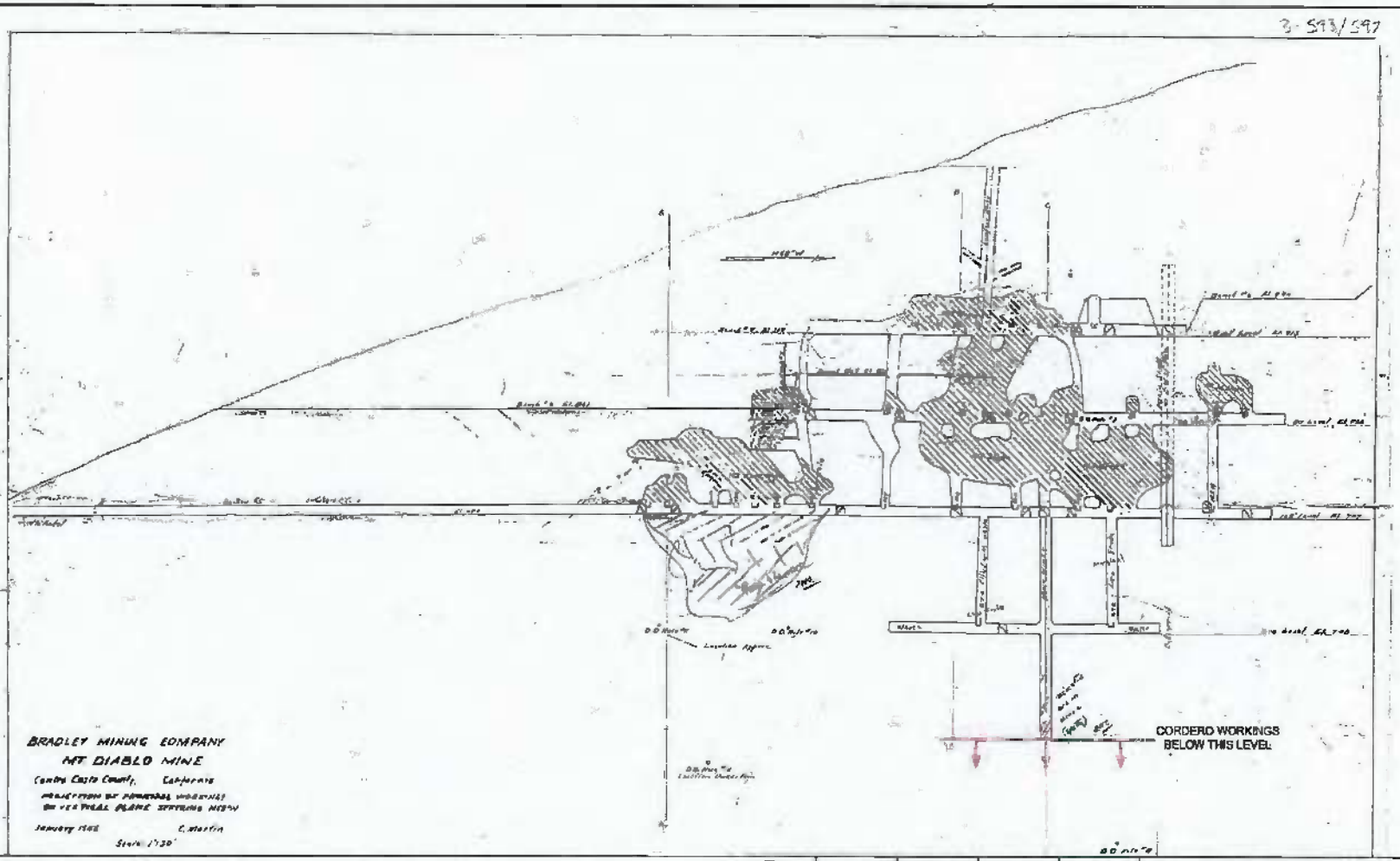
0 50 100
HORIZONTAL SCALE IN FEET

PLAN VIEW OF CORDERO TUNNEL SYSTEM WITH PRE-CORDERO TUNNELS

SGI The Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

N

FIGURE:
2-5



PROJECT NO.	DATE:	DRAWN BY:	APP. BY:
01-SUN-050	07/27/09	JP	PH

CROSS SECTION OF PRE-CORDERO TUNNEL SYSTEM

NA NA NA
HORIZONTAL SCALE IN FEET

SGI environmental
THE Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

N

FIGURE:
2-6

LEGEND
- Mine Structure (1953)
- Spring
- Pond (2004 Outline)
- ordero Waste Rock
- Main Winze, Sub-Vertical Connector

The Source Group, Inc.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

SCALE
0 150 300
SCALE IN FEET

FILE NAME: Mine Features Map.dwg

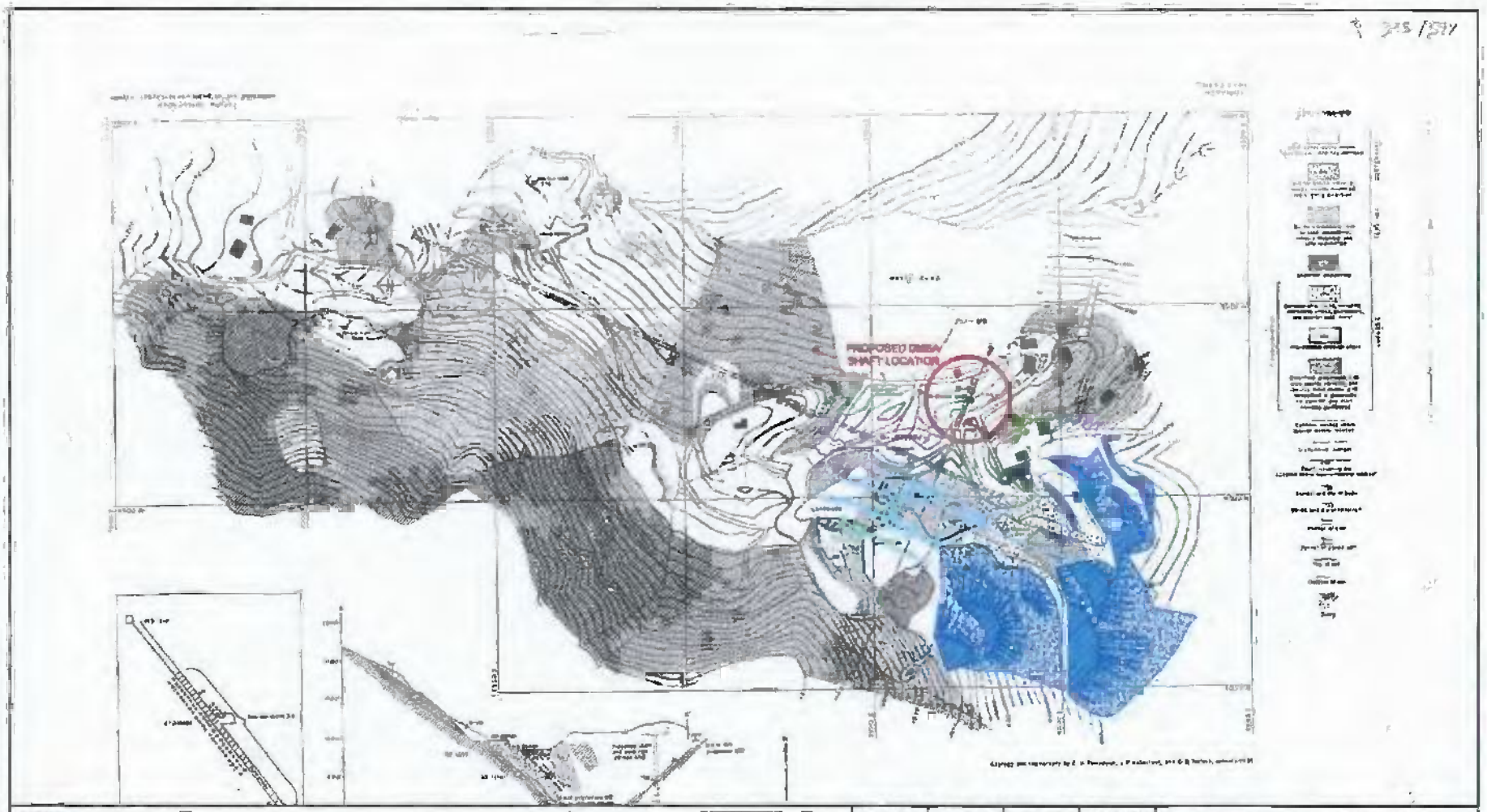
MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

DATE	DR. BY	APP. BY
5/4/09	JP	PH

2004 AERIAL PHOTO WITH
PRE- AND POST- DMEA/CORDERO
MINE FEATURES

PROJECT NO. 01-SUN-050

FIGURE NO. 2-7



LEGEND

Mine Structure

Pre-Cordero Tailings and Waste Rock

Underground Workings (Pre Cordero)
- Adit Level
- 80-ft Level
- 165-ft Level
- 270-ft Level

PROJECT NO.	DATE:	DRAWN BY:	APP. BY:
01-SUN-050	07/16/09	JP	PH

0 250 500
HORIZONTAL SCALE IN FEET

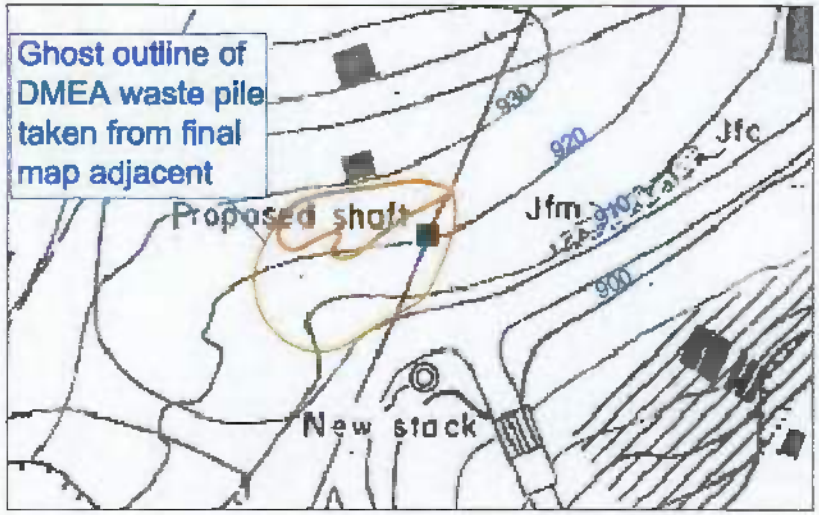
USGS DMEA MAP SHOWING PROPOSED DMEA SHAFT LOCATION

SGI THE Sequoia Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

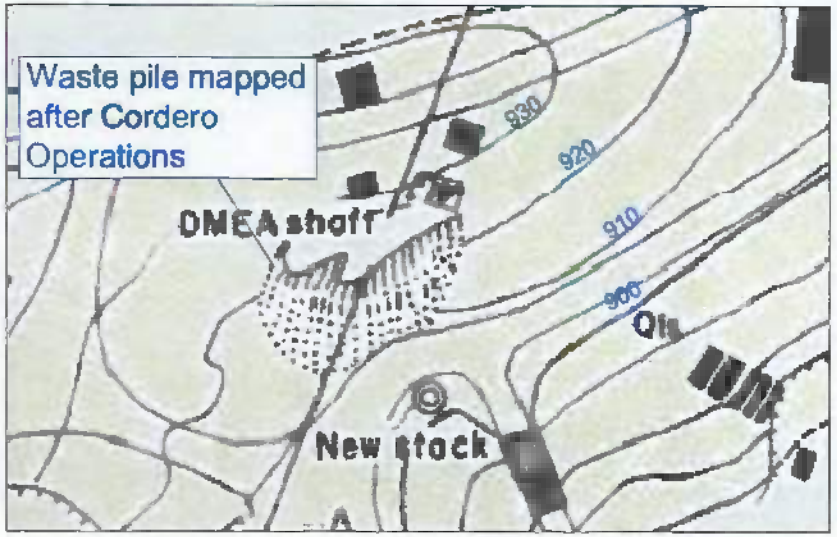
N

FIGURE: 2-8

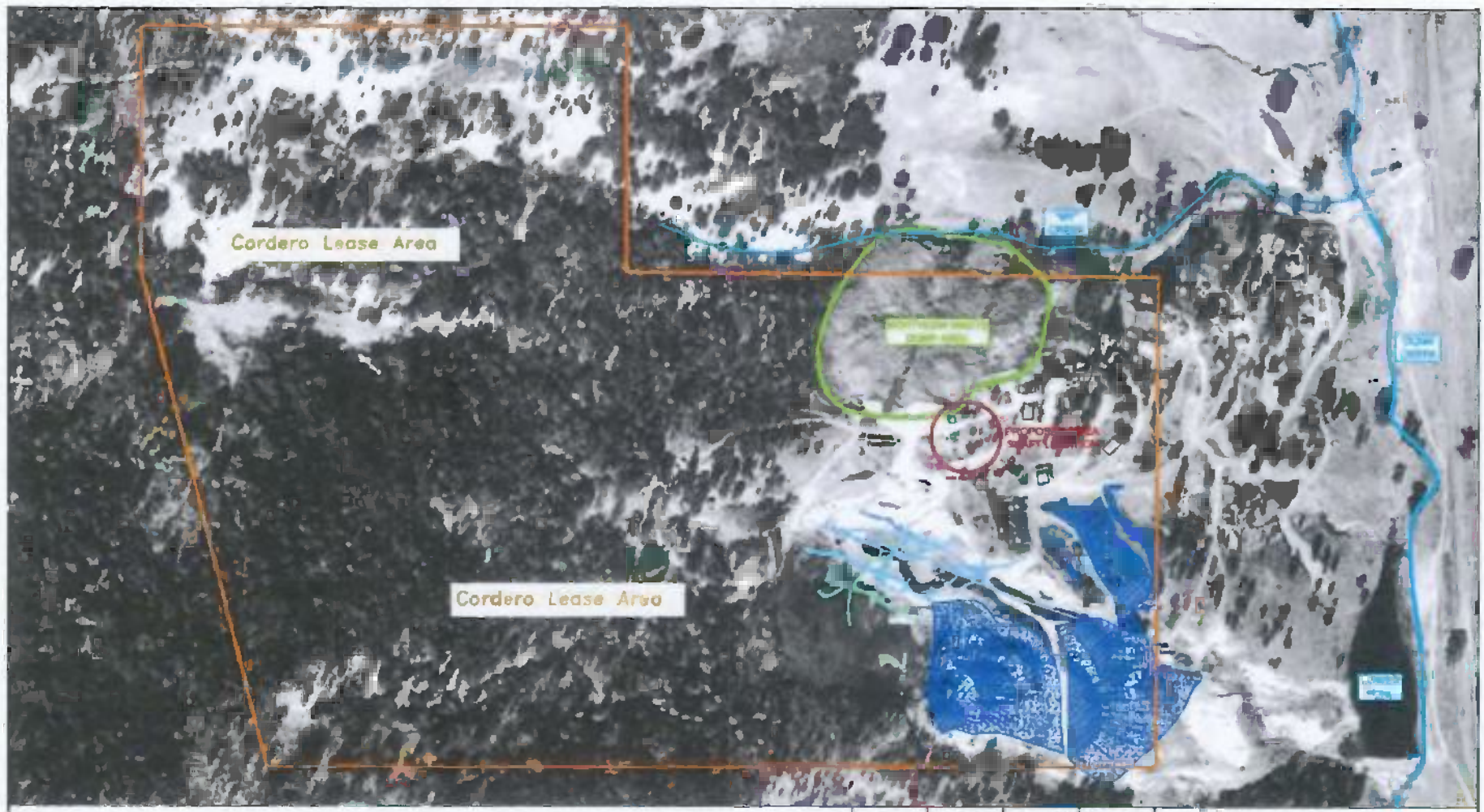
Pre-DMEA Shaft



Post-DMEA Shaft



	The Source Group, Inc. 3451C VINCENT ROAD PLEASANT HILL, CA 94523	SCALE 0 50 100 SCALE IN FEET	MT. DIABLO MERCURY MINE CONTRA COSTA COUNTY, CALIFORNIA			DMEA WASTE PILE COMPARISON CLOSE UP VIEW
		FILE NAME Mine Features Map.dwg	DATE 5/4/09	DR. BY JP	APP. BY PH	PROJECT NO. 01-SUN-050	EXHIBIT 2-9



LEGEND

Mine Structure

Pre-Cordero Tailings and Waste Rock

Underground Workings (Pre Cordero)
- Adit Level
- 80-ft Level
- 185-ft Level
- 270-ft Level

PROJECT NO	DATE:	DRAWN BY:	APP. BY:
01-SUN-060	07/16/09	JP	PH

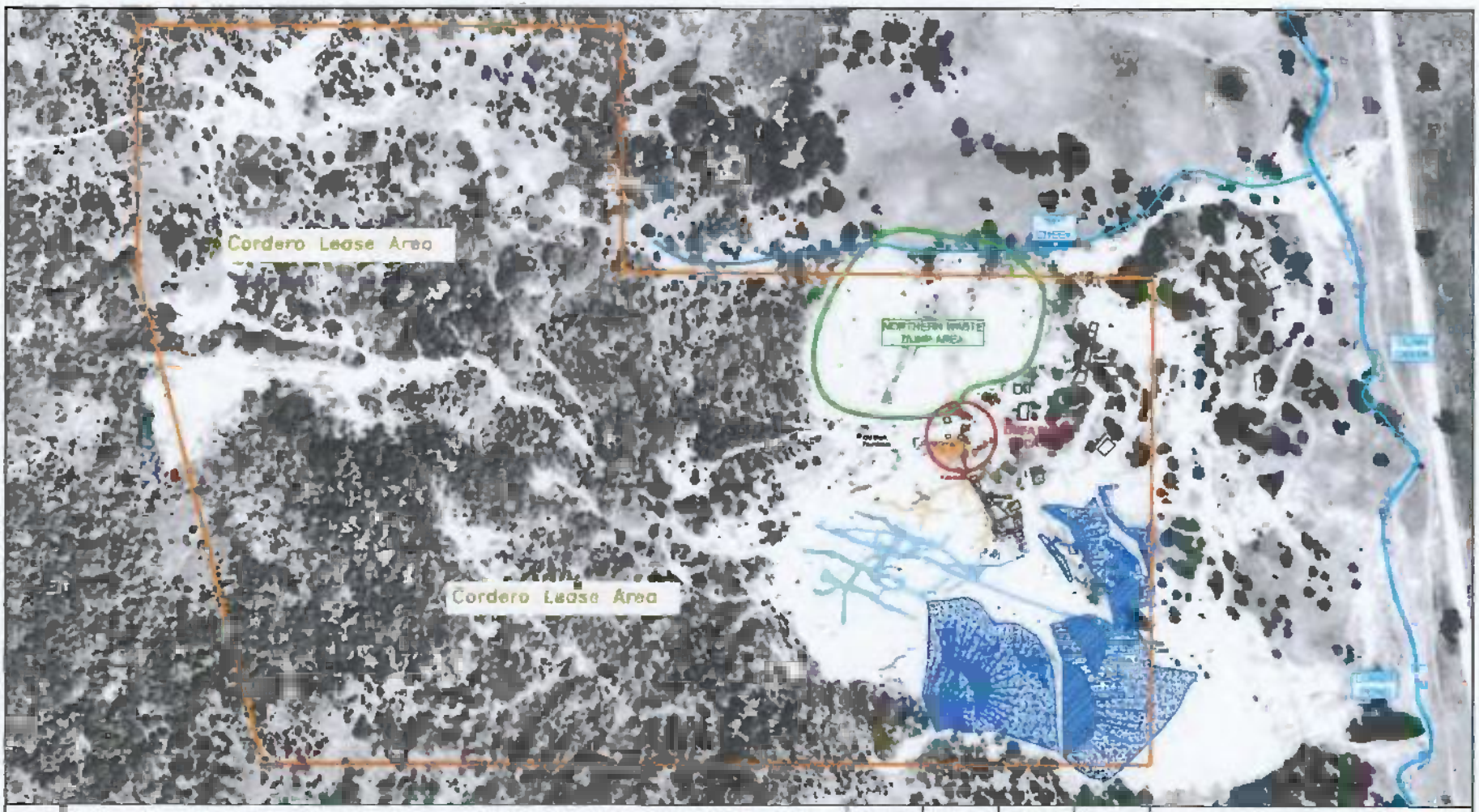
0 250 500
HORIZONTAL SCALE IN FEET

PRE-CORDERO CONDITION
1952 AERIAL PHOTOGRAPH

SGI THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

N

FIGURE:
2-10



LEGEND

- Mine Structure (1953)
- Tailings/Waste Rock (Pre Cordero)
- Waste Rock (UNEA/Cordero)

Underground Workings

- Adit Level
- 80-ft Level
- 165-ft Level
- 270-ft Level
- 360-ft Level (Cordero)

PROJECT NO.	DATE:	DRAWN BY	APP. BY
01-SUN-050	07/16/09	JP	PH

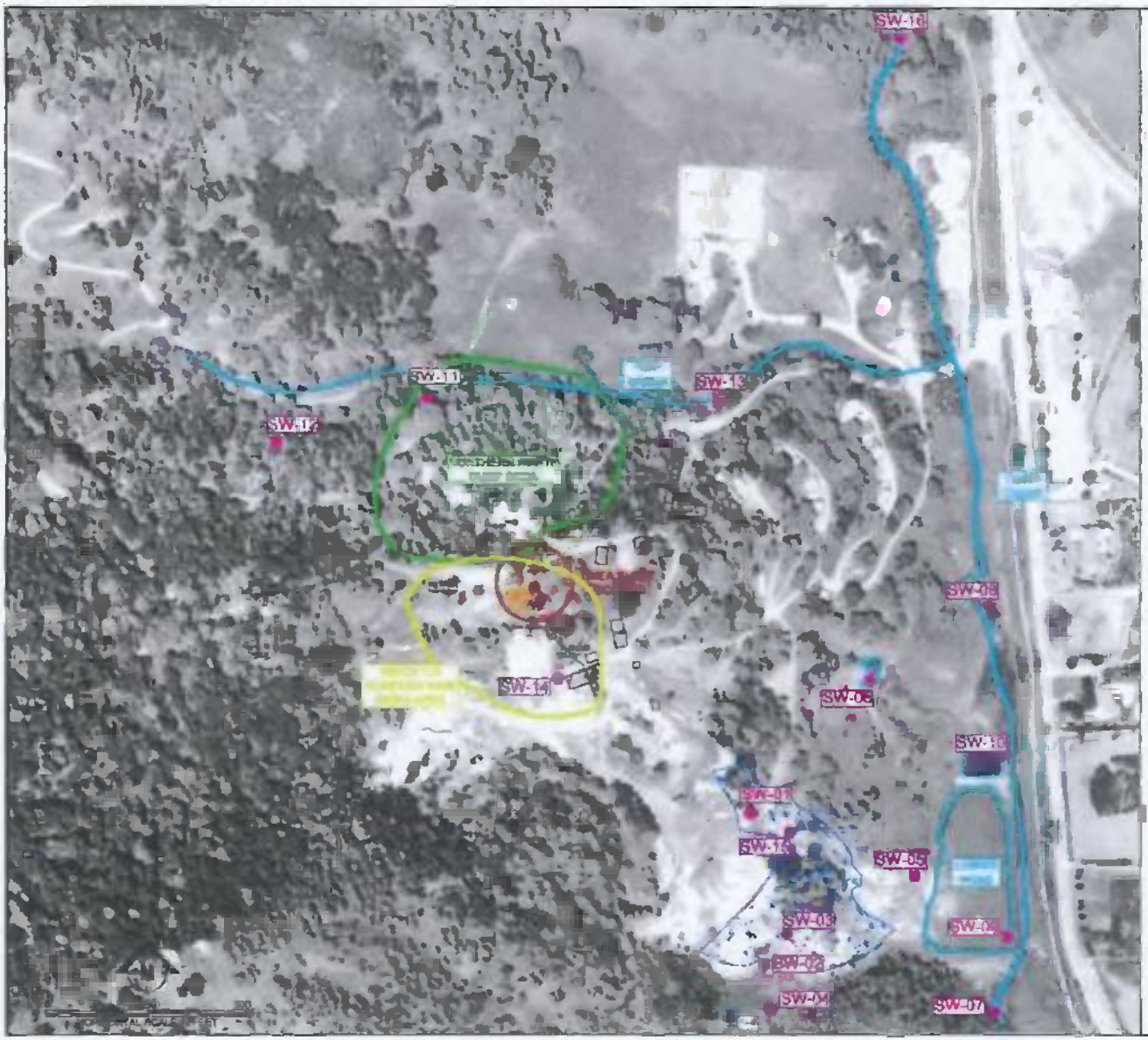
0 250 500
HORIZONTAL SCALE IN FEET

POST CORDERO CONDITION
1957 AERIAL PHOTOGRAPH

SGI environmental THE Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

N

FIGURE: 2-11



LEGEND

- Mine Structure (1953)
- Tailings/Waste Rock (Pre Cordero)
- Waste Rock (DNEA/Cordero)
- Surface Water Sample Location

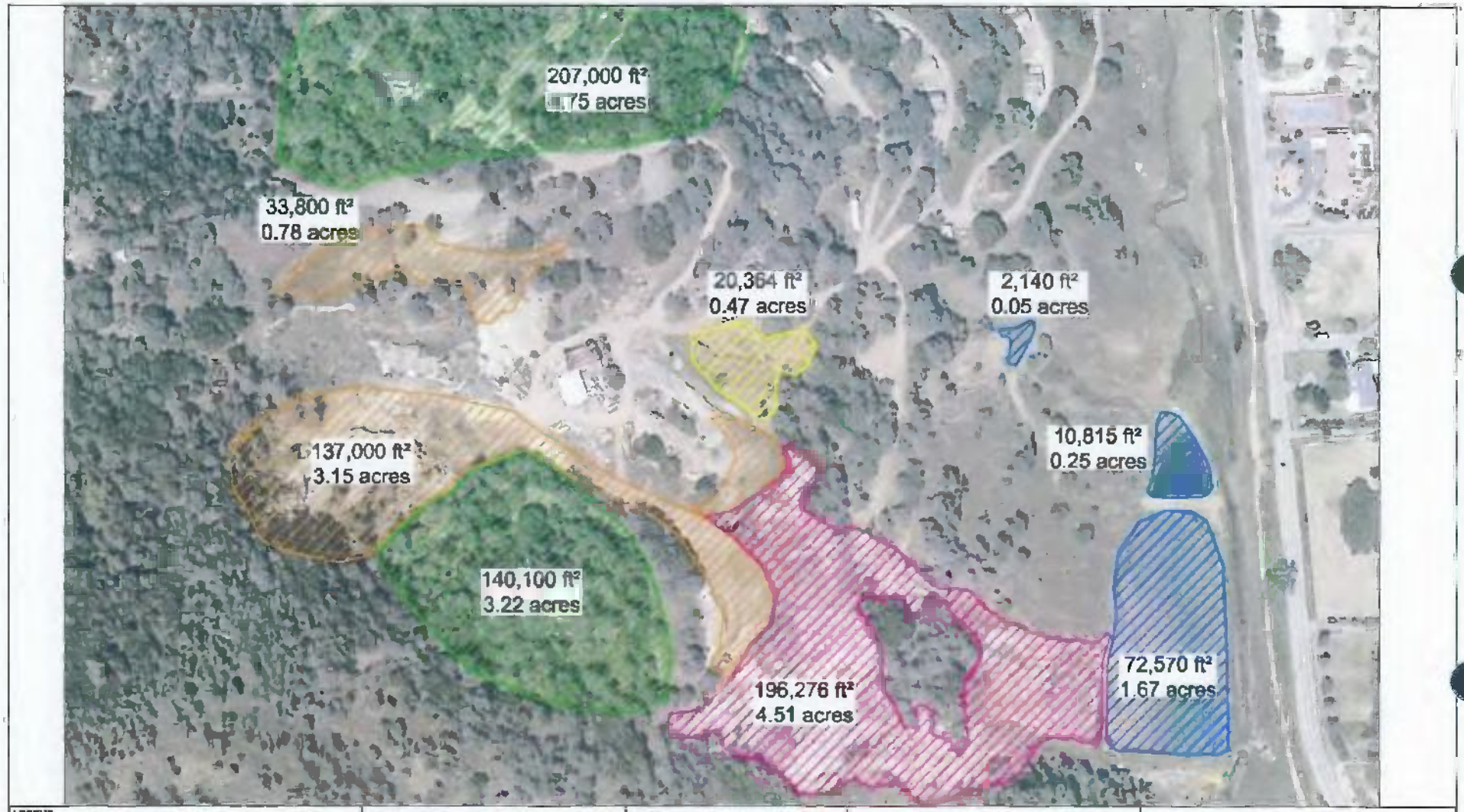
2010 SURFACE WATER SAMPLING LOCATIONS

MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

PROJECT NO	DATE	DRAWN BY	APP. BY
01-SUN-050	5/19/10	JP	PH

SGI The Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE 3-1



LEGEND

- Smelter Tailings Piles
- Capped Areas
- Calcine Tailings Piles
- Waste/Quarry Rock
- Ponds

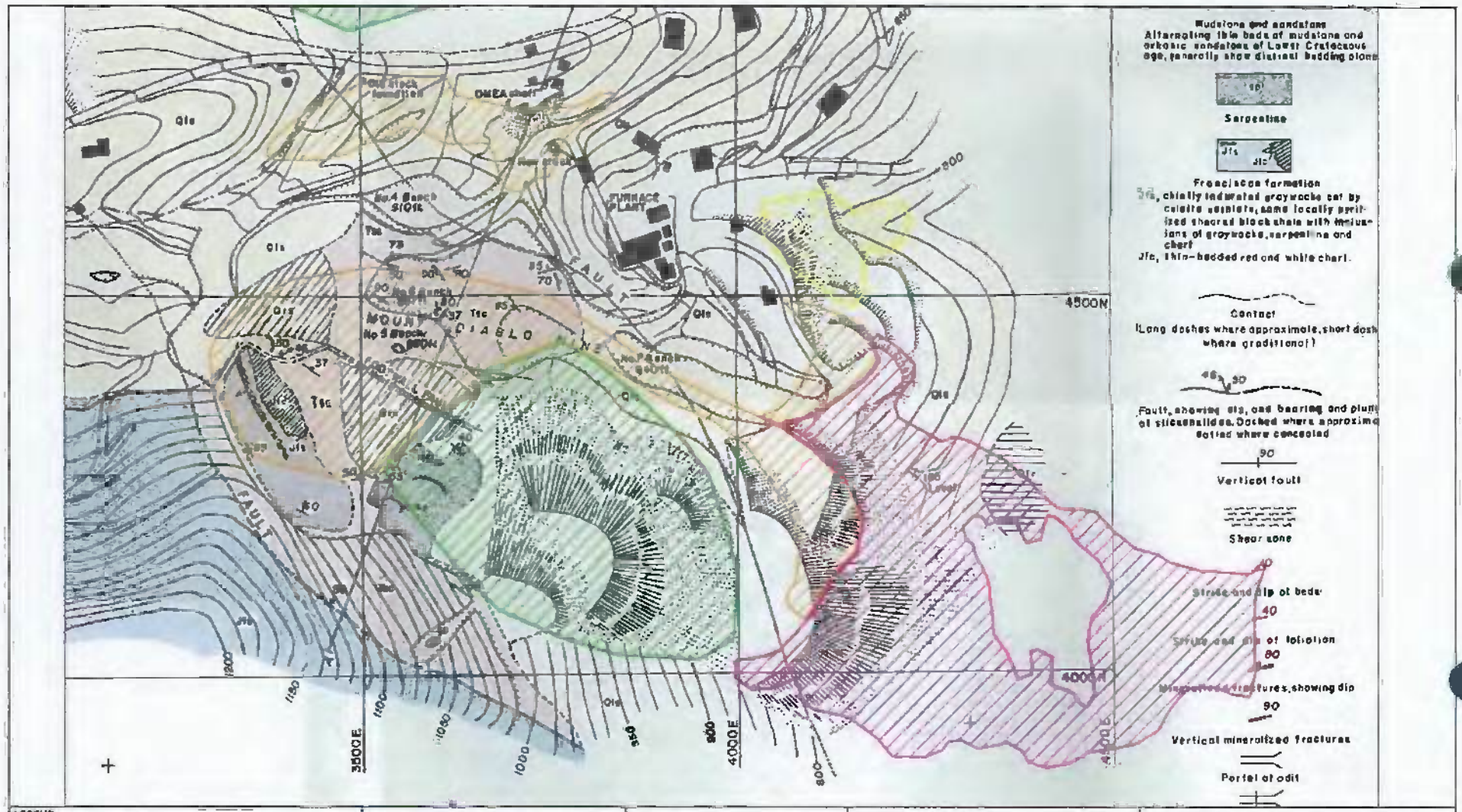
SGI THE Source Group, Inc.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

SCALE: 0 150 300 SCALE IN FEET

MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

MAPPED MINE WASTE MATERIALS

FILE NAME	DATE	DR. BY	APP. BY	PROJECT NO.	FIGURE NO.
Mine Features Map.dwg	4/14/09	JP	PH	01-SUN-050	4-1



LEGEND

- Bradley Tailings Piles
- Capped Areas
- Calcine Tailings Piles
- Waste/Quarry Rock
- Ponds

THE SOURCE GROUP, INC.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

SCALE: 0 125 250 SCALE IN FEET

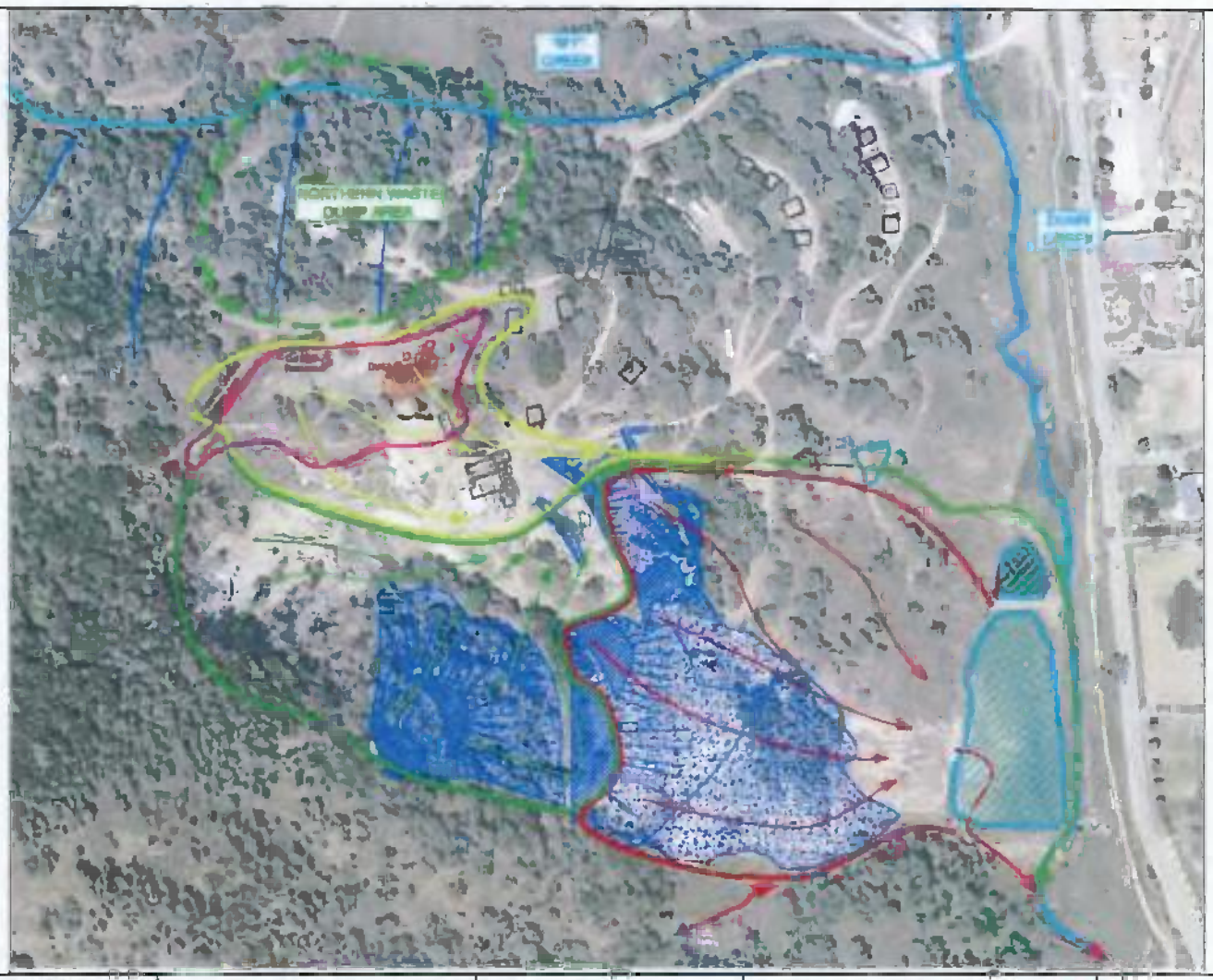
FILE NAME: Mine Features Map.dwg

MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(1952 AERIAL)

DATE	DR. BY	APP. BY
4/14/09	JP	PH

MAPPED MINE WASTE WITH USGS FEATURES OVERLAY

PROJECT NO.	FIGURE NO.
01-SUN-050	4-2



LEGEND

- Mine Structure
- Spring
- Pond (2004 Configuration)
- Surface Flow
- Tailings/Waste Rock (Pre Cordaro)
- Tailings/Waste Rock (Cordaro)

The Source Group, Inc.
3451C VINCENT ROAD
PLEASANT HILL, CA 94523

SCALE
0 200 400
SCALE IN FEET

FILE NAME: Mine Features Map.dwg

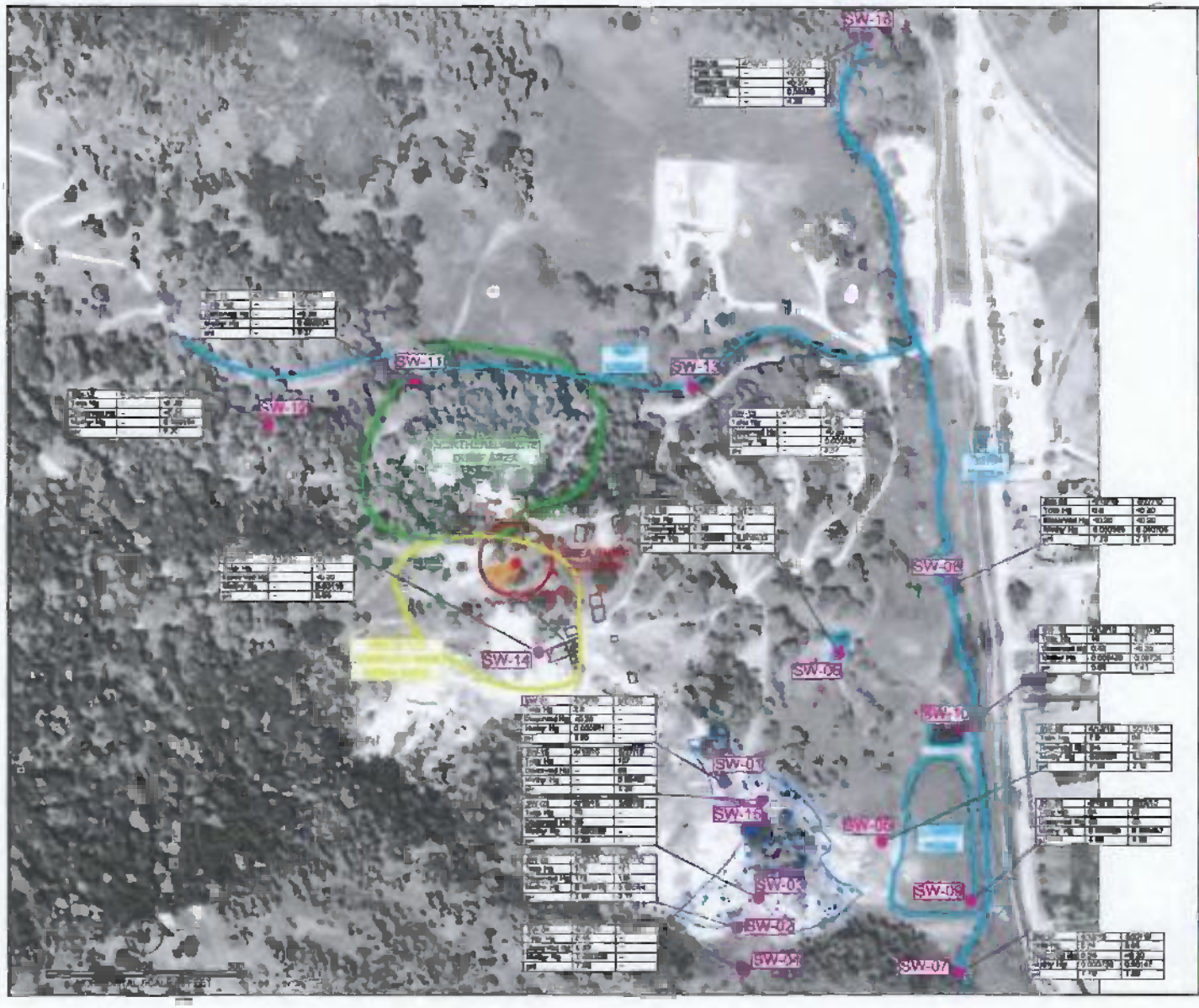
MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

DATE: 5/3/09 | DR. BY: JP | APP. BY: PH

SITE DRAINAGE AND SURFACE FLOW INTERPRETATION

PROJECT NO.: 01-SUN-050

FIGURE NO.: 4-3



LEGEND

- Mine Structure (1953)
- Tailings/Waste Rock (Pre Cordero)
- Waste Rock (DNEA/Cordero)
- Surface Water Sample Location
- Hg Mercury
- <0.20 Analyte not detected at or above the laboratory reporting limit of 0.20 µg/L

NOTE

All concentrations reported in micrograms per liter (µg/L)

2010 SURFACE WATER SAMPLING RESULTS, MERCURY AND pH

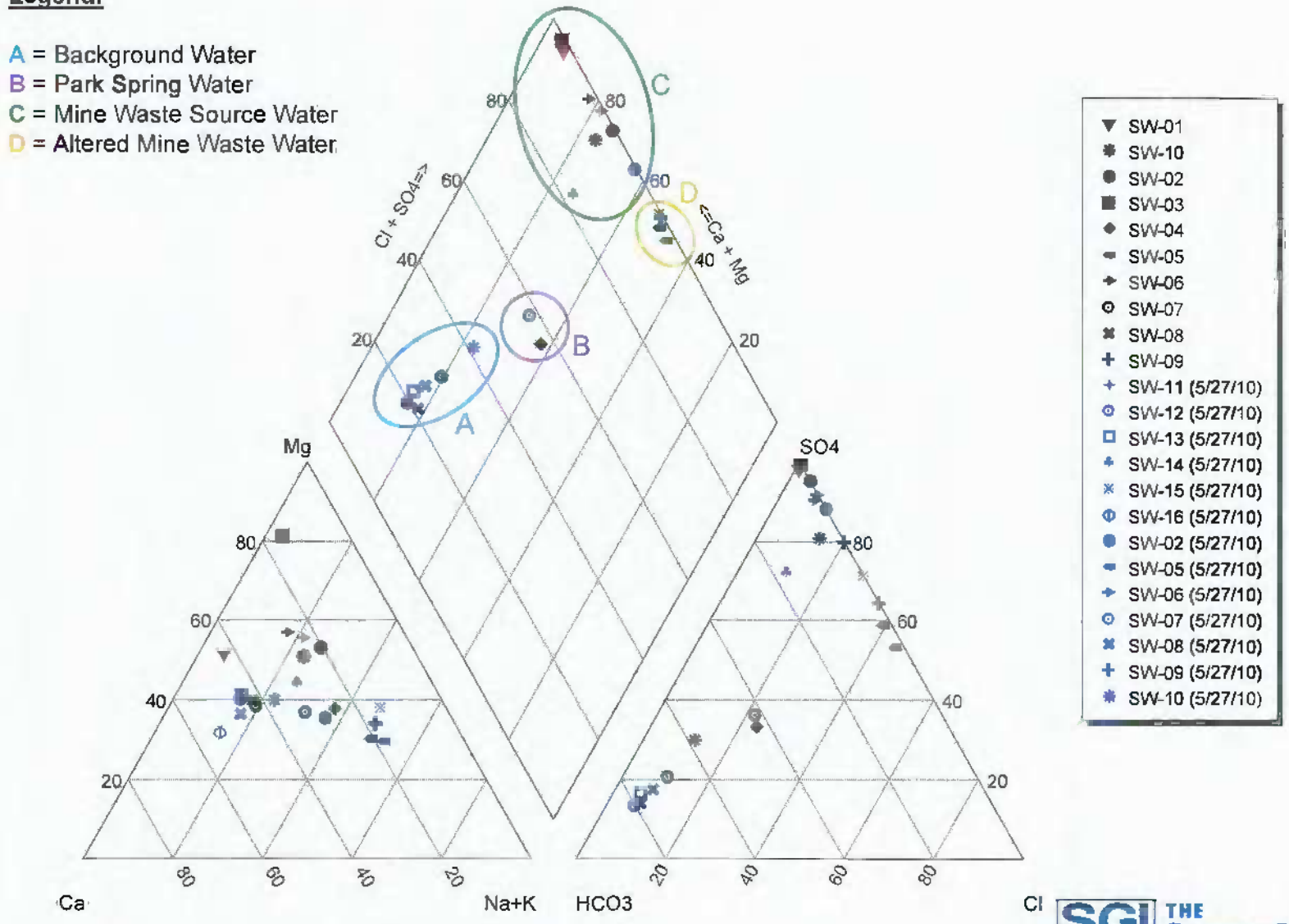
MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

PROJECT NO	DATE	DRAWN BY	APP BY
01-SUN-060	5/19/10	JP	PH

SGI Source Group, Inc.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

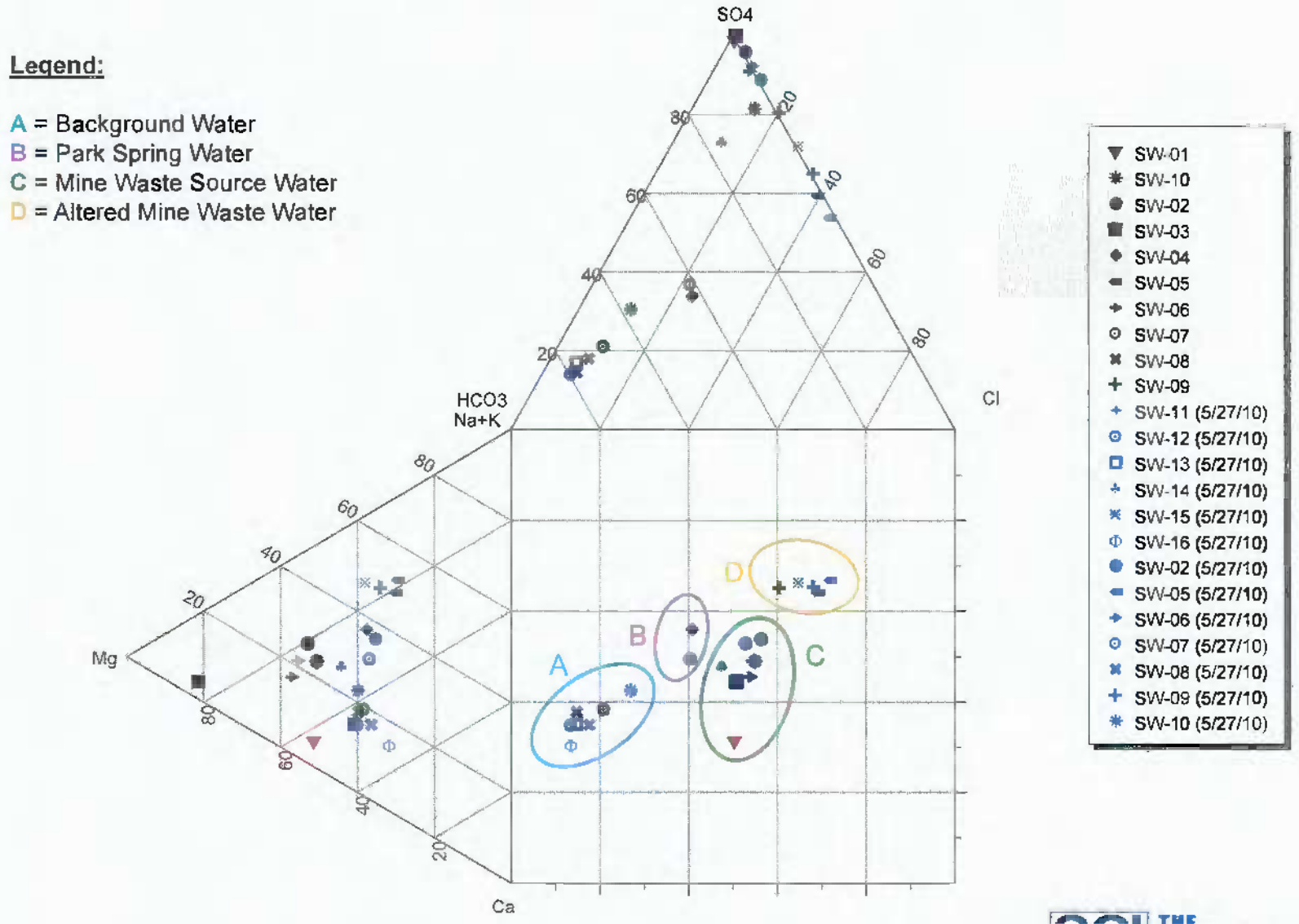
FIGURE 4-1

Figure 4-5
2010 Surface Water Data Piper Diagram



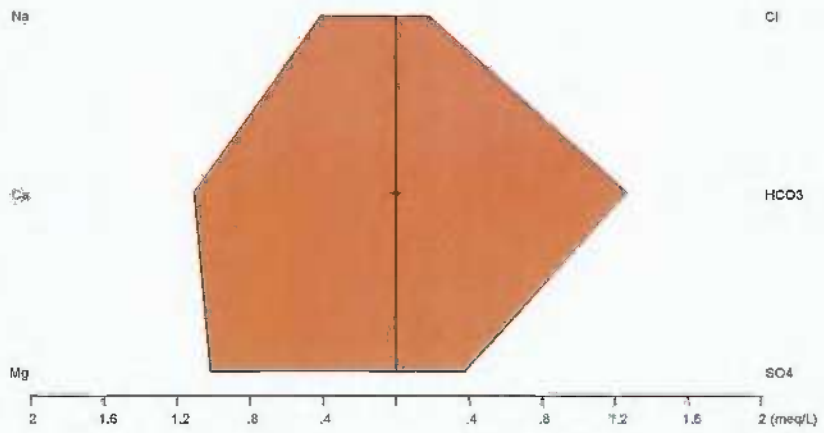
SGI environmental THE SOURCE GROUP, INC.

Figure 4-6
2010 Surface Water Data Durov Diagram

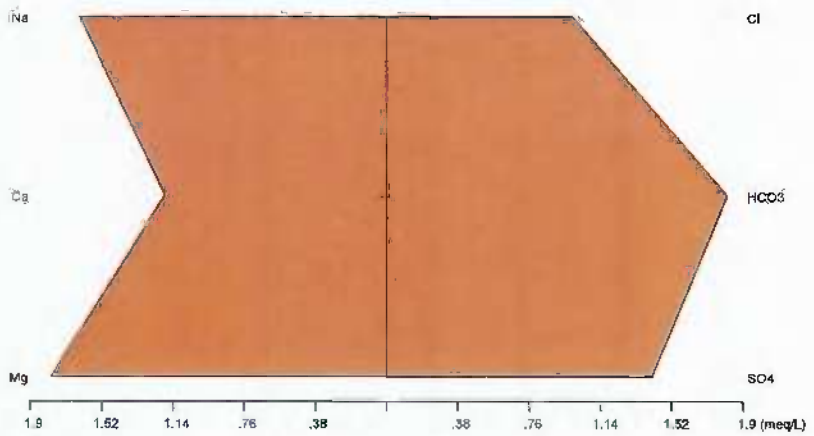


SGI environmental THE SOURCE GROUP, INC.

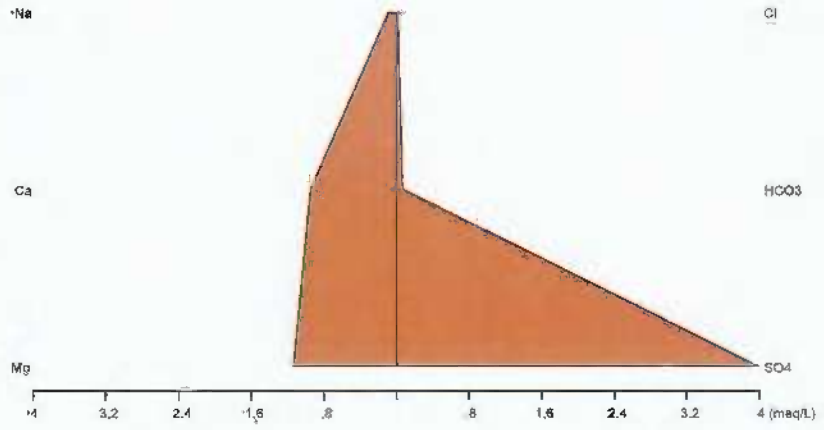
Background Water



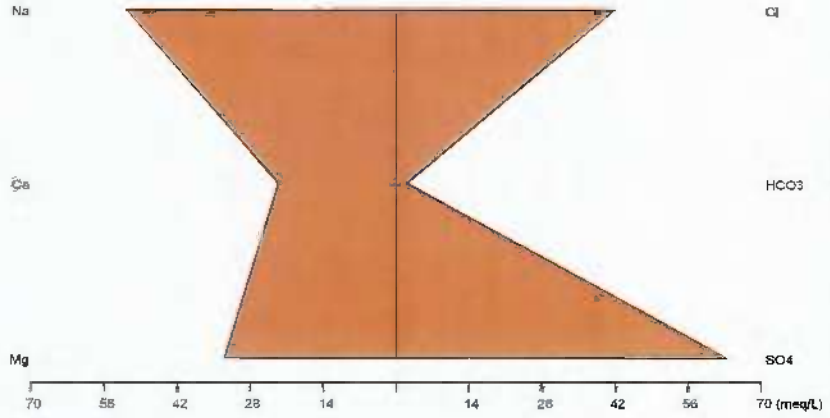
Park Spring Water



Mine Waste Source Water



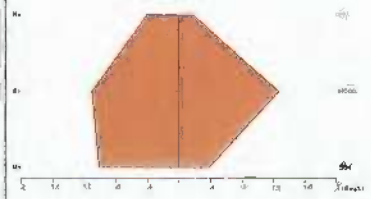
Altered Mine Waste Water



SGI environmental THE SOURCE GROUP, INC.	*Mount Diablo Mercury Mine* *Contra Costa County, California*	Characteristic Stiff Diagrams				
	FILE NAME Figure 4-7 - Characteristic Stiff Diagrams.cdr	DATE 7/29/10	DR. BY TC	APP. BY JP	PROJECT NO. 01-SUN-050	FIGURE 4-7

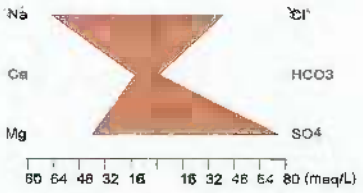
SW-07 - DUNN CREEK

April 2010

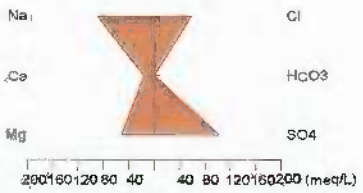


SW-07 - HISTORICAL DATA

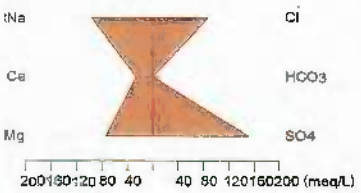
1975



1978

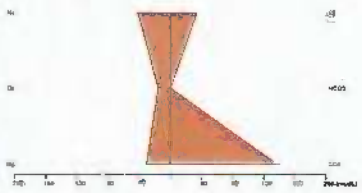


1984



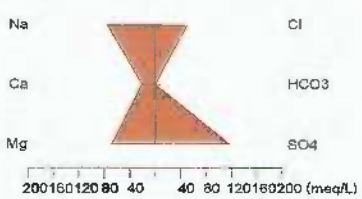
SW-09 - LOWER POND

April 2010

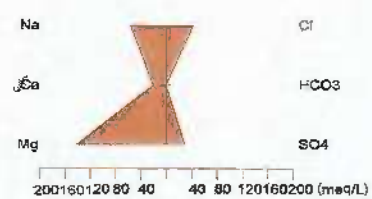


SW-09 - HISTORICAL DATA

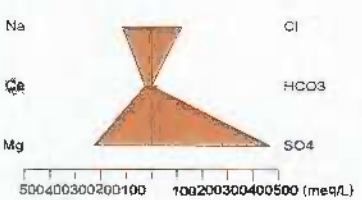
1978



1984



1987

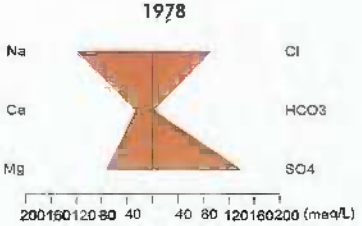


SW-04 - PARK SPRING

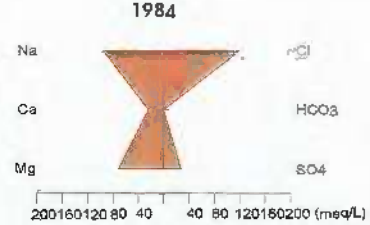
April 2010

SW-04 - HISTORICAL DATA

1978



1984



LEGEND

Mount Diablo Mercury Mine
Contra Costa County, California

Comparison of Hostorical Data
Stiff Diagrams

PROJECT NO.	DATE	DRAWN BY	APP. BY:
01-SUN-052	7/29/10	TC	JP

HORIZONTAL SCALE IN FEET

SGI environment THE SOURCE GROUP, INC.
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

N

FIGURE 4-8

TABLES

Table 2-1
Production Statistics
Mount Diablo Mercury Mine
Contra Costa County, California

PRODUCTION STATISTICS- MOUNT DIABLO MINE "MILL WORKINGS"					
Operator	Date	Cubic Yards of Ore Milled	Waste rock from tunnels, crosscuts,raises,shafts and stopes (cubic yards)	Dewater volume (acre-feet)	Mercury Produced, flasks
Welch	1863	shaft and placer	NA	none	NA
Unknown	1875-1877	NA	NA	NA	1000
Mt. Diablo Quicksilver MC, operator Ericson	1930-1936	NA	NA	NA	739
leased to Bradley MC	1936-1951	78,188[1]	24,815[2]	161[3]	10,455
leased Ronnie B. Smith	Sept 1951- June 1953	920[4]	NA	NA	125[5]
DMEA and Smith	June 1953 - Jan 1954	none	630[6]	minor	none
DMEA, Johnson and Jonas	Jan 1954 - Feb 1955	none	67[7]	NA	none
leased to Cordero MC	Feb 1955 - Dec 1956	none	1,228 [8]	19.5[9]	none
leased to Nevada Scheelite Company	1956	none	none	minor	none
Total Cubic Yards of Material Taken Out			105,848 [10]		

Notes:

[1] Table 4, Ross 1958, reported 128,664 tons of ore milled. Converted here to cubic yards above based on conversion of 1.62 tons per cubic yard (cy)

[2] Total length of workings 4,570 ft (Pampeyan 1963, p 25) x 5 feet x 7 feet x bulking factor plus 20% = 7,108 cy less (2) and (3). Included 550 ft of shafts and raises (935 cy) and stopes of 19,000 cy (Pampeyan, Plate 5).

[3] Estimate 10 gpm for 10 years.

[4] Used the ratio of ore milled to flasks produced for Bradley to estimate the amount of ore milled by Smith.

[5] DMEA internal memo dated 2/4/57 ref doc no. 2:88/384

[6] 300-ft DMEA shaft 4.5 ft x 8.5 ft (Ross 1958) plus 77 ft of tunnel at 5 ft x 7 ft on the 360 level w/ bulking factor of 20%

[7] 43 ft of tunnel on the 360 level x 5 feet x 7 feet w/ bulking factor of 20%

[8] 790 ft of crosscuts and drifts on the 360 level (Pampeyan, and Sheahan 1957) x 5 feet x 7 feet w/ bulking factor of 20%.

[9] Best guess: 90 gpm for 27 days to dewater the mine (ref: DMEA payment records to Smith for same) and 200 days at 10 gpm.

[10] Sum of Ore Milled and Waste Rock

Table 2-2
Summary of 1995 Mercury Data Collected by Slotton
Mount Diablo Mercury Mine
Contra Costa County, California

Site	Flow (cfs)	Aqueous Total Mercury		Suspended Solids	
		Raw (µg/L)	Filtered (µg/L)	All (TSS) (mg/L)	Solids Hg (dry ppm)
Upper Dunn Creek	5.20	0.0036	0.00273	1.50	0.60
Upper Horse Creek	0.08	0.0255	0.016	1.10	8.64
"My" Creek	2.10	0.381	0.0284	10.90	32.41
OreHouse Spring	0.01	1.94	0.071	11.40	164.00
Trickle coming from tailings	0.03	58.4	54.1	77.20	56.37
South Pond outlet	0.05	59.1	59.1	26.10	0.00
Horse Creek at tailings	0.32	25	21.9	104.00	29.80
Dunn Creek below mine confluence	7.80	0.949	0.226	13.50	53.60

Notes:
Data from study and report by Slotton et.al. (2006).
cfs = cubic feet per second.
µg/L = micrograms per liter.
mg/L = milligrams per liter.
ppm = parts per million.

Table 4-1
2010 Surface Water Sample Location Key
Mount Diablo Mercury Mine
Contra Costa County, California

Type	Samples	Location Description
Background	SW-12	Watershed runoff upstream of My creek
Background	SW-16	Far up-gradient Dunn Creek
Springs	SW-4	Park spring
	SW-14	Ore House spring
Adit Spring	SW-1	Emanation point - April sampling
	SW-15	Emanation point - May sampling
My Creek Runoff	SW-11	My creek upstream of Northern waste dump
	SW-13	My creek downstream of Northern waste dump
Mid- Dunn Creek	SW-8	Dunn Creek upstream of ponds after confluenced with My Creek
Ponds	SW-6	Upper pond
	SW-9	Lower pond
	SW-10	Middle pond
Mine Water Runoff	SW-2	Overland flow in Bradley waste rock
	SW-3	Overland flow in Bradley waste rock
	SW-5	Overland flow just above lower pond
Downstream	SW-7	Below confluence of all wastes

Table 4-2
Summary of Chemical Analyses Results
2010 Surface Water Sampling
Mount Diablo Mercury Mine
Contra Costa County, California

			Water Quality Criteria[a]			Sample Location															
						Background		Springs				My Creek Runoff		Mid-Dunn Creek	Ponds			Mine Water Runoff			Downstream
				Human Health for Consumption of		My Creek	Dunn Creek	Park	Ore House	Adit		Pond	Weir		Upper	1	Middle				Dunn Creek
Parameter	Unit	Date	Freshwater	Water + Organism	Organism Only	SW-12	SW-13	SW-04	SW-14	SW-01	SW-15	SW-11	SW-13	SW-58	SW-06	SW-09	SW-10	SW-02	SW-03	SW-05	SW-07
Mercury_total (Hg)	µg/L	4/12/2010	0.91	0.05	0.051	–	–	0.45	–	2.2	–	–	–	0.6	32	94	18	179	74	7.9	0.74
		5/27/2010				<0.20	<0.20	–	1.3	–	107	<0.20	<0.20	<0.20	22	88	0.21	161	–	66	0.64
Mercury_Dissolved (Hg)	µg/L	4/12/2010	0.77	0.05	0.051	–	–	0.32	–	<0.20	–	–	–	<0.20	0.30	85	0.42	175	35	8.4	0.24
		5/27/2010				<0.20	<0.20	–	<0.20	–	56	<0.20	<0.20	<0.20	14	58	<0.20	135	–	40	<0.20
Methyl Mercury	ng/L	4/12/2010	3[b]	0.3 mg/kg (fish tissue)	0.3 mg/kg (fish tissue)	–	–	0.328	–	0.061	–	–	–	0.369	0.350	0.523	0.486	0.976	0.398	1.04	0.736
		5/27/2010				0.104	0.0766	–	1.16	–	4.88	0.504	0.439	0.705	0.233	0.857	7.25	2.84	–	3.29	1.47
pH	su	4/12/2010	6.5 - 9.0	5.0 - 9.0	–	–	–	7.69	–	3.95	–	–	–	7.73	6.08	4.52	6.83	2.60	2.23	7.16	7.79
		5/27/2010				8.20	7.75	–	5.94	–	4.39	8.27	8.37	7.91	4.48	4.52	7.41	3.13	–	7.15	7.69
Alkalinity, Bicarbonate	mg/L	4/12/2010	–	–	–	–	–	111	–	<5.0	–	–	–	83	<5.0	<5.0	12	<5.0	<5.0	127	77
		5/27/2010				223	139	–	40	–	<5.0	227	229	169	<5.0	<5.0	248	<5.0	–	187	179
Alkalinity, Carbonate (CO3)	mg/L	4/12/2010	–	–	–	–	–	<5.0	–	<5.0	–	–	–	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5/27/2010				<5.0	<5.0	–	<5.0	–	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	–	<5.0	<5.0
Alkalinity, Total as CaCO3	mg/L	4/12/2010	20	–	–	–	–	111	–	<5.0	–	–	–	83	<5.0	<5.0	12	<5.0	<5.0	127	77
		5/27/2010				223	139	–	40	–	<5.0	227	233	169	<5.0	<5.0	248	<5.0	–	187	179
Fluoride	mg/L	4/12/2010	–	–	–	–	–	<0.10	–	<0.10	–	–	–	<0.10	<0.10	<0.50	0.12	0.39	1.2	<0.50	<0.10
		5/27/2010				<0.10	<0.10	–	<0.10	–	<0.50	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<0.10	–	<0.50	<0.10
Dissolved Organic Carbon	mg/L	4/12/2010	–	–	–	–	–	6.3	–	2.4	–	–	–	6.9	4.5	25.7	4.8	4.9	7.6	2.8	6.3
		5/27/2010				2.6	4.2	–	3.7	–	11	2.4	2.6	4.1	6.1	2.7	5.2	9.2	–	5.8	4.3
Specific Conductivity	µmhos/cm	4/12/2010	–	–	–	–	–	468	–	341	–	–	–	212	346	8,050	422	5,160	9,710	9,220	236
		5/27/2010				494	335	–	414	–	11,400	494	526	414	2,430	9,810	711	3,880	–	14,200	774
Solids, Total Dissolved (TDS)	mg/L	4/12/2010	250	–	–	–	–	251	–	224	–	–	–	199	242	6,120	267	4,450	18,000	6,790	210
		5/27/2010				261	190	–	276	–	9,110	273	301	231	2,006	7,800	447	3,060	–	9,980	465
Turbidity	NTU	4/12/2010	–	–	–	–	–	48	–	13	–	–	–	190	180	14	125	7.7	84	127	178
		5/27/2010				1.5	46	–	5.6	–	2,650	2.7	3.0	27	1.0	19	7.1	261	–	298	13
Hardness, Total as CaCO3	mg/L	4/12/2010	–	–	–	–	–	148	–	103	–	–	–	106	151	2,340	157	1,170	2,010	2,770	105
		5/27/2010				223	153	–	141	–	3,230	231	249	185	1,140	3,010	290	1,060	–	3,820	281
Silica, Dissolved (SiO2)	mg/L	4/12/2010	–	–	–	–	–	25	–	8.8	–	–	–	36	52	78	29	64	80	25	43
		5/27/2010				17	17	–	32	–	62	17	17	14	55	35	17	29	–	27	13
Chloride (Cl)	mg/L	4/12/2010	230	–	–	–	–	35	–	1.1	–	–	–	4.5	8.8	1,220	19	183	54	1,490	6.5
		5/27/2010				10	6.2	–	15	–	1,570	10	10	11	102	1,750	28	333	–	2,370	54
Bromide (Br)	mg/L	4/12/2010	–	–	–	–	–	<0.20	–	<0.20	–	–	–	<0.20	<0.20	4.6	<0.20	0.54	<0.40	5.7	<0.20
		5/27/2010				4.7	<0.20	–	<0.20	–	5.5	<0.20	<0.20	<0.20	0.38	5.9	<0.20	0.92	–	8.7	<0.20
Nitrogen, Nitrate (NO3)	mg/L	4/12/2010	–	10	–	–	–	0.56	–	<0.10	–	–	–	0.18	0.48	1.8	<0.10	1.6	<0.20	4.2	0.26
		5/27/2010				<0.10	0.23	–	<0.10	–	<0.50	<0.10	<0.10	<0.10	<0.10	1.8	<0.10	1.3	–	6	<0.10
Sulfate (SO4)	mg/L	4/12/2010	–	–	–	–	–	68	–	191	–	–	–	12	134	6,620	148	4,570	13,400	3,040	18
		5/27/2010				30	19	–	138	–	5,340	31	39	32	1,610	4,310	101	3,450	–	3,840	123
Antimony (Sb)	ug/L	4/12/2010	–	5.6	640	–	–	<10	–	10	–	–	–	<10	82	<10	35	19	112	<10	<10
		5/27/2010				<10	<10	–	<10	–	62	<10	10	<10	<10	<10	<10	22	–	12	<10
Arsenic (As)	ug/L	4/12/2010	150	0.018	0.14	–	–	<10	–	<10	–	–	–	<10	53	<10	24	119	530	<50	<10
		5/27/2010				<10	<10	–	<10	–	182	<10	<10	<10	<10	<10	<10	48	–	<10	<10
Beryllium (Be)	ug/L	4/12/2010	–	–	–	–	–	<5.0	–	<5.0	–	–	–	<5.0	<5.0	<5.0	<5.0	<5.0	8.3	<5.0	<5.0
		5/27/2010				<5.0	<5.0	–	<5.0	–	5.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	–	<5.0	<5.0
Boron (B)	ug/L	4/12/2010	–	–	–	–	–	2,660	–	72	–	–	–	226	712	73,500	1,350	13,900	2,660	86,700	364
		5/27/2010				941	171	–	761	–	98,900	971	953	486	8,660	86,800	1,920	18,000	–	139,000	3,120
Cadmium (Cd)	ug/L	4/12/2010	0.25	–	–	–	–	<2.0	–	<2.0	–	–	–	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.5	<2.0
		5/27/2010				<2.0	<2.0	–	<2.0	–	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	–	<2.5	<2.0
Calcium (Ca)	µg/L	4/12/2010	–	–	–	–	–	23,600	–	18,700	–	–	–	21,700	18,800	319,000	20,200	130,000	124,000	449,000	22,100
		5/27/2010				47,100	38,200	–	22,800	–	357,000	48,300	49,700	41,400	133,000	409,000	35,900	175,000	–	549,000	52,000

Table 4-2
Summary of Chemical Analyses Results
2010 Surface Water Sampling
Mount Diablo Mercury Mine
Contra Costa County, California

			Water Quality Criteria[a]			Sample Location															
						Background		Springs				My Creek Runoff		Mid-Dunn Creek	Ponds			Mine Water Runoff			Downstream
				Human Health for Consumption of		My Creek	Dunn Creek	Park	Ore House	Adit		Pond	Weir		Upper	1	Middle				Dunn Creek
Parameter	Unit	Date	Freshwater	Water + Organism	Organism Only	SW-12	SW-16	SW-04	SW-14	SW-01	SW-15	SW-11	SW-13	SW-08	SW-06	SW-05	SW-10	SW-02	SW-03	SW-05	SW-07
Chromium (Cr)	µg/L	4/12/2010	74	–	–	–	–	18	–	12	–	–	–	31	53	26	25	770	2,700	11	22
		5/27/2010				<5.0	<5.0	–	<5.0	–	240	<5.0	<5.0	<5.0	<5.0	19	<5.0	309	–	28	<5.0
Copper (Cu)	µg/L	4/12/2010	–	1300	–	–	–	5.9	–	12	–	–	–	34	33	50	18	235	832	22	23
		5/27/2010				<5.0	5.1	–	6.4	–	101	<5.0	<5.0	<5.0	34	63	<5.0	94	–	28	<5.0
Iron (Fe)	µg/L	4/12/2010	1000	–	–	–	–	6,840	–	2,140	–	–	–	19,600	22,800	13,400	9,830	392,000	1,600,000	16,300	13,200
		5/27/2010				<50	2,260	–	987	–	411,000	70	89	732	272	11,100	1,335	53,800	–	12,900	685
Lead (Pb)	µg/L	4/12/2010	2.5	–	–	–	–	<5.0	–	<5.0	–	–	–	5.8	6.8	<5.0	<5.0	<10	<20	<25	<5.0
		5/27/2010				<5.0	<5.0	–	<5.0	–	13	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.6	–	<5.0	<5.0
Magnesium (Mg)	µg/L	4/12/2010	–	–	–	–	–	21,700	–	13,700	–	–	–	12,500	25,300	374,000	24,500	205,000	414,000	400,000	12,300
		5/27/2010				25,700	13,900	–	20,400	–	567,000	26,900	28,200	19,800	195,000	462,000	38,500	136,000	–	548,000	36,700
Manganese (Mn)	µg/L	4/12/2010	–	–	100	–	–	80	–	584	–	–	–	388	648	5,930	554	5,720	13,000	6,350	280
		5/27/2010				<5.0	90	–	184	–	18,000	12	5.8	71	3,410	8,950	823	3,410	–	6,240	381
Nickel (Ni)	µg/L	4/12/2010	52	610	4600	–	–	165	–	1,320	–	–	–	45	1,880	11,800	1,450	23,900	72,400	8,760	82
		5/27/2010				<5.0	<5.0	–	587	–	25,000	<5.0	6.2	10	16,800	16,900	263	11,000	–	9,060	345
Potassium (K)	µg/L	4/12/2010	–	–	–	–	–	4,120	–	1,850	–	–	–	4,170	4,890	36,000	3,660	5,660	2,730	43,500	3,720
		5/27/2010				717	1,800	–	2,080	–	33,300	808	898	1,550	10,900	47,000	2,120	14,500	–	58,300	3,140
Selenium (Se)	µg/L	4/12/2010	5.0	170	4200	–	–	<20	–	<20	–	–	–	<20	<20	<20	<20	<20	<50	<20	<20
		5/27/2010				<20	<20	–	<20	–	<40	<20	<20	<20	<20	<20	<20	<20	–	<20	<20
Silicon (Si)	µg/L	4/12/2010	–	–	–	–	–	11,600	–	4,120	–	–	–	26,300	24,300	11,100	13,500	29,900	37,300	11,800	19,900
		5/27/2010				7,830	8,130	–	15,100	–	38,300	7,780	7,720	8,620	25,700	16,500	7,950	13,600	–	12,600	5,930
Silver (Ag)	µg/L	4/12/2010	–	–	–	–	–	<5.0	–	<5.0	–	–	–	<5.0	<5.0	<5.0	<5.0	<5.0	<15	<5.0	<5.0
		5/27/2010				<5.0	<5.0	–	<5.0	–	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	–	<3.0	<5.0
Sodium (Na)	µg/L	4/12/2010	–	–	–	–	–	37,600	–	1,670	–	–	–	8,110	11,400	969,000	19,200	188,000	14,800	1,120,000	9,320
		5/27/2010				17,400	10,700	–	20,900	–	1,290,000	18,000	18,200	16,100	134,000	1,260,000	37,300	251,000	–	1,760,000	56,000
Thallium (Tl)	µg/L	4/12/2010	–	0.24	0.47	–	–	<20	–	<20	–	–	–	<20	<20	<20	<20	<20	<60	<20	<20
		5/27/2010				<20	<20	–	<20	–	<20	<20	<20	<20	<20	<20	<20	<20	–	<20	<20
Zinc (Zn)	µg/L	4/12/2010	120	7400	26000	–	–	<10	–	28	–	–	–	49	78	335	52	646	2,160	205	34
		5/27/2010				<10	11	–	14	–	1,180	<10	<10	<10	245	368	<10	276	–	180	<10

Notes:

Italic font indicates value is above the water quality criteria for human health for consumption of "water + organism" or "organism only"

Bold and font indicates value is above the water quality criteria for freshwater

µg/L = microgram per liter
su = standard units
ng/L = nanogram per liter
mg/L = milligram per liter.
µmhos/cm = micromhos per centimeter.
NTU = nephelometric turbidity unit.

a Values represent the lowest of the water quality criteria available from CRWQCB (2008a) and USEPA (2009)

b Value from CRWQCB – San Francisco Bay water quality criteria for methyl mercury in freshwater (CRWQCB, 2008a). Values were not available from CRWQCB (2008b) and USEPA (2009).

References:

CRWQCB. 2008a. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final. May.

CRWQCB. 2008b. Central Valley Regional Water Quality Control Board. A Compilation of Water Quality Goals. July

USEPA. 2009. National Recommended Water Quality Criteria. Office of Water. Office of Science and Technology.

Table 4-3
Summary of Field Parameters
2010 Surface Water Sampling
Mount Diablo Mercury Mine
Contra Costa County, California

Sample Location	Sample ID	Date	Time	Temperature (°C)	pH (su)	Dissolved Oxygen (mg/L)	Electrical Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
Background	MTD-SW-12/2	5/27/2010	9:20	NA	NA	NA	NA	NA
	MTD-SW-16/2	5/27/2010	12:45	12.83	7.3	10	335	226
Springs	MTD-SW-04/2	5/27/2010	12:15	NA	NA	NA	NA	NA
	MTD-SW-14/2	5/27/2010	10:05	14.5	5.22	9.5	437	228.1
Adit Spring	MTD-SW-15/2	5/27/2010	11:15	13.5	3.59	9.5	3702	400
My Creek Runoff	MTD-SW-11/2	5/27/2010	9:20	12.75	7.61	18.7	505	265.7
	MTD-SW-13/2	5/27/2010	9:30	12.12	7.7	16	550	261.3
Mid-Dunn Creek	MTD-SW-08/2	5/27/2010	13:00	14.34	7.6	9.15	334	216
Ponds	MTD-SW-06/2	5/27/2010	10:50	15.71	3.99	9.5	2477	307.2
	MTD-SW-09/2	5/27/2010	13:15	16.43	4.09	6.0	9892	289
	MTD-SW-10/2	5/27/2010	13:50	16.08	6.58	6.2	767	56.2
Mine Water Runoff	MTD-SW-02/2	5/27/2010	12:00	NA	NA	NA	NA	NA
	MTD-SW-05/2	5/27/2010	13:10	22	7.02	6.5	13410	-46
Downstream	MTD-SW-07/2	5/27/2010	13:30	NA	NA	NA	NA	NA

Notes:
°C = degrees Celsius.
su = standard unit.
mg/L = milligram per liter.
µS/cm = microSiemen per centimeter.
mV = millivolt.

Table 4-4
Select Historical Data Matched to Current Sample Collection Location
Mount Diablo Mercury Mine
Contra Costa County, California

Constituent	Units	Date	Ref #	SW-04-EQ	SW-05-EQ	SW-07-EQ	SW-08-EQ	SW-09-EQ	SW-14-EQ
Total Mercury (Hg)	µg/L	Sep-70	125-26			50			
		Jan-75	125-1, 125-26			72	1.6		
		Apr-75	125-1			4.2			
		Jul-78	125-1, 125-26			4	2	1.8	
		Oct-84	125-1, 125-26	10		7		152	
		Mar-87	125-1					33	
		Mar-87	125-26					84	
		Jul-87	125-26					17	
		Oct-87	125-26	<0.2	120				
		Mar-88	125-26		170		<1.0	110	
		Apr-89	125-26		190		2		13
		May-89	125-26						
pH	su	Sep-70	125-26			--			
		Jan-75	125-1, 125-26			7.2	8.1		
		Apr-75	125-1			7.2			
		Jul-78	125-1, 125-26			6.9	8.3	6.7	
		Oct-84	125-1, 125-26	7.7		7.0		2.7	
		Mar-87	125-1					2.9	
		Mar-87	125-26					--	
		Jul-87	125-26					2.4	
		Oct-87	125-26	7.7	2.5				
		Mar-88	125-26		2.2		8.6	3.1	
		Apr-89	125-26		2.3		5.0		3.0
		May-89	125-26						

Notes:
(a) pH was analyzed past the 15min hold time.

Table 4-5
Summary Comparison of Surface Water Data
Mount Diablo Mercury Mine
Contra Costa County, California

Historical Data from RWQCB Files		UCD Slotton Study		Sunoco-SGI	
Year	(µg/L)	Year	(µg/L)	Year	(µg/L)
OREHOUSE SPRING (SW-14)					
1989	13	1995	1.944	2010	1.3
TAILINGS RUNOFF ABOVE LOWER POND (SW-05)					
1987	120	1995	58	2010	7.9 - 66
1988	170				
1989	190				
DUNN CREEK DOWNSTREAM OF LOWER POND (SW-07)					
1970	50	1995	0.949	2010	0.64 - 0.74
1975	72				
1978	4				
1984	7				
DUNN CREEK UPSTREAM OF LOWER POND (SW-08)					
1975	1.6	1995	0.004 - 0.381	2010	<0.20 - 0.6
1978	2				
1988	<1.0				
1989	2				
LOWER POND OUTLET (SW-09)					
1978	1.8	1995	59.1	2010	88 - 94
1984	152				
1987	84				
1988	110				
PARK SPRING (HORSE CREEK) UPHILL FROM MINE TAILINGS (SW-04)					
1984	10	1995	0.026	2010	0.45
1987	<0.200				

APPENDIX A

SUMMARY OF HISTORIC WATER QUALITY DATA WITH LOCATION KEY MAP AND NOTES

Appendix A
Mount Diablo Mercury Mine
Contra Costa County, California

Reference #	Station	Location	Date Sampled	EC (umhos/cm)	TDS (mg/L)	pH (units)	Turbidity (JTU)	Hardness (mg/L)	Alkalinity (mg/L)	COD (mg/L)	As (mg/L)	Cu (mg/L)
125-26	S-1-2*	Map Location 1(?). Dunn Creek Above Mine, Exact Location Unknown	Feb-46	—	336	8.3	—	336	—	—	—	—
125-26	S-1-2*	Map Location 1A. Dunn Creek Above Mine, Exact Location Unknown	Feb-42	417	—	7.9	—	208	—	—	0.01	0.1
125-26	S-1-4*	Map Location 1A. Dunn Creek Above Mine Waste	Apr-43	780	—	7.8	—	320	—	—	0.00	0.00
125-26	S-1-6*	Map Location 1B. Dunn Creek 500 Feet Above Road to [illegible] Mine	Feb-44	336	197	8.4	—	146	170	—	0.00	0.2
125-26	S-1-8*	Map Location 1C. Dunn Creek Intersection of Marsh Creek and Morgan Territory Road	Apr-75	[illegible]	[illegible]	8.6	—	132	160	—	0.00	0.00
125-26	S-4-1*	Map Location 1C. Dunn Creek Above [illegible] Pond	Apr-48	400	300	7.1	—	—	—	—	—	—
125-26	S-3-1*	Map Location 2A. West Fork of Dunn Creek about 100 Feet Above Confluence with Dunn Cree	Apr-42	1620	—	8.8	—	858	—	—	0	0
125-26	S-3-1*	Map Location 2B. West Fork of Dunn Creek about 3/4 Mile Above Confluence with Dunn Creek	Apr-52	737	—	8.8	—	313	—	—	0	0
125-26	S-4-1*	Map Location 4. Seepage Through [illegible] Pipe	Apr-42	3130	2405	3.76	—	2060	—	—	0.01	[illegible]
125-26	S-4-2*	Map Location 4 (?). Seepage in Mine Waste in [illegible]	Sep-40	28100	14270	2.8	—	6640	—	—	—	—
125-26	S-4-2*	Map Location 4 (?). Seepage in Mine Waste in [illegible] ???	Mar-40	[illegible]	57000	2.4	—	15600	—	—	—	—
125-26	[illegible]	Map Location 4A. [illegible] Spring	Apr-[illegible]	[illegible]	745	2.0	—	—	—	—	[illegible]	0.07
125-26	S-6-1*	Map Location 5. Dunn Creek Below Mine	Mar-42	—	—	3.6	—	—	—	—	—	—
125-26	S-6-2*	Map Location 5. Dunn Creek Below Mine	Feb-40	—	2460	4.9	—	—	12	—	—	—
125-26	S-6-2*	Map Location 5B. Dunn Creek Below Mine	Nov-42	2180	[illegible]	3.4	—	[illegible]	—	—	—	—
125-26	S-6-4*	Map Location 5B. Dunn Creek Below Mine	Feb-42	1320	1420	4.1	—	864	—	—	0.01	0.31
125-26	S-6-6*	Map Location 5B. Dunn Creek Below Mine	Apr-37	680	576	8.2	—	360	—	—	[illegible]	[illegible]
125-26	S-6-8*	Map Location 6. Dunn Creek Above Confluence with Horse Creek	Feb-53	—	—	7.8	—	—	—	—	—	—
125-26	S-6-7*	Map Location 6A. Dunn Creek Above Confluence with Horse Creek	Feb-58	—	—	7.9	—	—	—	—	—	—
125-26	S-6-8*	Map Location 6A. Dunn Creek Above Confluence with Horse Creek	Mar-88	768	490	6.7	—	[illegible]	—	—	—	<0.5
125-26	S-6-9*	Map Location 6B. Dunn Creek Above Confluence with Horse Creek	Mar-88	1000	—	—	—	—	—	—	—	—
125-26	S-6-10*	Map Location 6C. Dunn Creek East of Surface Impoundment	Nov-71	—	—	3.0	—	—	—	—	—	—
125-26	S-6-11*	Map Location 6C. Dunn Creek East of Surface Impoundment	Jul-78	1149	[illegible]	5.36	—	418	269	—	0	0
125-26	S-6-1*	Map Location 6C. Dunn Creek 100 Feet Below Confluence with Horse Creek	Feb-53	—	—	8.8	—	—	—	—	—	—
125-26	S-6-2*	Map Location 6. Dunn Creek Below Confluence with Horse Creek	Feb-58	—	—	8.2	—	—	—	—	—	—
125-26	S-6-6*	Map Location 6A. Dunn Creek Below Confluence with Horse Creek	Mar-57	2650	—	7.3	—	—	—	—	—	—
125-26	S-6-4*	Map Location 6B. Dunn Creek Below Confluence with Horse Creek	Sep-70	—	—	—	—	—	—	—	—	—
125-26	S-6-8	Map Location 6C. Dunn Creek Just Below Confluence with Horse Creek	Nov-71	—	—	8.0	—	—	—	—	—	—
125-26	S-6-8	Map Location 6C. Dunn Creek 100 Feet Below Confluence with Horse Creek	Jan-75	9590	4170	7.2	??	2620	—	—	—	0.00
125-26	S-6-7	Map Location 6A. Dunn Creek Just Below Confluence with Horse Creek	Jul-78	12800	11900	6.9	—	3400	59	—	0.01	0.00
125-26	S-6-8*	Map Location 6A. ?? Below Confluence with Horse Creek	Oct-84	13000	13000	7.8	—	—	330	—	0.005	0.02
125-26	S-6-9*	??	Mar-88	1800	—	7.5	—	—	—	—	—	—
125-26	S-7-1*	Map Location 2. ??	??	[illegible]	[illegible]	7.8	—	228	—	—	[illegible]	[illegible]
125-26	S-7-2	??	Apr-75	1300	770	7.2	—	415	—	—	0.01	0.03
125-26	S-7-3*	??	Feb-69	—	—	7.3	—	—	—	—	—	—
125-26	S-9-1*	??	Feb-62	690	374	[illegible]	—	225	—	—	0.02	[illegible]
125-26	S-9-2	??	Apr-52	744	463	[illegible]	—	300	—	—	0	[illegible]
125-26	S-8-1*	??	Mar-42	—	—	8.2	—	—	—	—	—	—
125-26	S-8-2*	??	May-43	—	—	8.3	—	—	—	—	—	—
125-26	S-8-3*	??	Mar-46	—	—	7.8	—	—	—	—	—	—
125-26	S-8-4*	??	Feb-47	—	—	7.8	—	—	—	—	—	—
125-26	S-8-5*	??	Nov-50	420	303	8.1	—	192	—	—	—	—
125-26	S-8-6*	??	Mar-51	381	—	8.3	—	—	—	—	—	—
125-26	S-10-1*	Map Location 10A.	Feb-52	280	164	8.4	—	127	—	—	0	0
125-26	S-10-2*	Map Location 10A.	Apr-42	430	250	8.2	—	187	—	—	0	0
125-26	S-11-1*	Map Location 11. Horse Creek at Sunshine Creek	Jan-60	2040	—	7.7	—	—	—	—	—	—
125-26	S-12-1*	Map Location 12. Horse Creek Above Confluence with Dunn Creek	Nov-87	[illegible]	14090	7.7	—	[illegible]	[illegible]	—	<0.5	<0.008
125-26	S-12-2*	Map Location 12. Horse Creek Below Confluence with Surface Impoundment	Mar-88	710000	—	7.4	—	—	—	—	—	—
125-26	S-12-3*	Map Location 12A. Horse Creek Just Above Confluence with Dunn Creek	Mar-88	710000	—	7.8	—	—	—	—	—	—
125-26	S-13-1*	Map Location 13. Seepage Below Surface Impoundment	Sep-40	27000	22000	3.3	—	10500	—	—	—	—
125-26	S-13-2*	Map Location 13. Seepage Below Surface Impoundment	Feb-53	—	—	3.1	—	—	—	—	—	—
125-26	S-13-3*	Map Location 13. Seepage [illegible] East of Surface Impoundment	Feb-58	—	—	4.1	—	—	—	—	—	—
125-26	S-13-4*	Map Location 13. Seepage [illegible] East of Surface Impoundment	Mar-67	15590	—	4.8	—	—	—	—	—	—
125-26	S-14-1*	Map Location 14. Near ?? Creek Heading ?? Of Surface Impoundment	Nov-71	—	—	5.3	—	—	—	—	—	—
125-26	S-14-2*	Map Location 14(?). ?? [illegible] Pond, Map North of Tailings	Jul-78	6730	6700	4.1	—	2310	—	—	[illegible]	0.02
125-26	S-14-3*	Map Location 14A. Creek Above [illegible] Pond	Apr-88	3700	2400	2.0	—	—	—	—	—	[illegible]
125-26	S-15-1*	Map Location 15. ?? Below Tailings	Nov-71	—	—	7.0	—	—	—	—	—	—
125-26	S-15-2*	Map Location 15B. Tailings ?? North of ??	Jul-78	—	—	8.15	—	—	—	—	—	—
125-26	S-15-3*	Map Location 15A. North ?? Spring	Oct-87	11700	[illegible]	5.7	—	2497	NL	—	<0.1	<0.005
125-26	S-16-1	Map Location ?. Surface Impoundment [illegible]	Aug-39	—	—	4.2	—	—	1409	—	—	—
125-26	S-16-2*	Map Location 16. Surface Impoundment Inlet	Mar-88	910000	—	2.7	—	—	—	—	—	—
125-26	S-17-1*	Map Location 17A. Surface Impoundment Outlet	Aug-39	—	—	4.2	—	—	1120	—	—	—
125-26	S-17-2*	Map Location 17A. Surface Impoundment Outlet	Feb-40	—	—	2.6	—	—	208	—	—	—
125-26	S-17-3*	Map Location 17A. Surface Impoundment Outlet	May-40	—	—	3.8	—	—	—	—	—	—
125-26	S-17-4*	Map Location 17A. Surface Impoundment Outlet	Jul-40	—	—	3.6	—	—	—	—	—	—
125-26	S-17-5*	Map Location 17A. Surface Impoundment Outlet	Jan-42	—	—	3.2	—	—	—	—	—	—
125-26	S-17-6*	Map Location 17A. Surface Impoundment Outlet	Feb-42	—	—	3.2	—	—	—	—	—	—
125-26	S-17-7*	Map Location 17A. Surface Impoundment Outlet	Mar-46	—	—	8.0	—	—	—	—	—	—
125-26	S-17-8*	Map Location 17A. Surface Impoundment Outlet	Sep-50	27900	24000	3.65	[illegible]	10700	—	—	85.1	—
125-26	S-17-9*	Map Location 17A. Surface Impoundment Outlet	Nov-50	2100	1545	3.3	[illegible]	4130	—	—	—	—
125-26	S-17-10*	Map Location 17A. Surface Impoundment Outlet	Mar-58	1200	827	4.0	[illegible]	471	—	—	—	—
125-26	S-17-11	Map Location 17A. Surface Impoundment Inlet	Nov-71	—	—	[illegible]	—	—	—	—	—	—
125-26	S-17-12	Map Location 17A. Surface Impoundment Outlet	Jul-78	13400	11900	3.80	—	4400	[illegible]	—	0	0.30
125-26	S-17-13	Map Location 17A. Surface Impoundment Outlet	May-87	9500	10000	—	—	—	—	—	[illegible]	0.39
125-26	S-17-14*	Map Location 17B. Surface Impoundment Outlet	Mar-88	—	11000	2.1	—	—	—	—	—	—
125-26	S-18-1*	Map Location 18. Drainage [illegible] Tailings Pile	Nov-71	—	—	3.3	—	—	—	—	—	—
125-26	S-18-2*	Map Location 18. Drainage [illegible] Tailings Pile	Jul-78	20700	14000	2.39	—	—	—	—	—	0.01
125-26	S-19-1*	Map Location 19B. South ?? Spring[1]	Oct-87	11300	11400	2.4	—	—	—	—	<0.1	1
125-26	S-19-2*	Map Location 19A. South ?? Spring[2]	Mar-88	30000	2300	2.2	—	5004	—	—	—	0.41
125-26	S-19-3*	Map Location 19A. South ?? Spring[2]	Apr-88	280000	[illegible]	[illegible]	—	—	—	—	—	—
125-26	S-19-4*	Map Location 19. North Creek at [illegible] Springs	Nov-71	—	—	6.0	—	—	—	—	—	—
125-55	S-19-5*	Map Location 19. North Creek at [illegible] Springs	Jul-78	20700	[illegible]	3.75	—	6020	1300	—	[illegible]	[illegible]
125-26	S-19-7*	Map Location 19. [illegible] Drainage to Tailings	Mar-88	17000	[illegible]	[illegible]	—	4388	—	—	—	<0.5
125-26	S-20-1*	Map Location 20A. Horse Creek Above Confluence with Surface Impoundment Outflow	Oct-84	—	[illegible]	[illegible]	—	—	—	—	[illegible]	[illegible]
125-26	S-20-2*	Map Location 20A. Horse Creek Above Confluence with Surface Impoundment Outflow	Mar-88	—	<11000	[illegible]	—	—	—	—	—	—
125-26	S-21-1*	Map Location 21A. Seepage from Mine Tunnel	Feb-62	34400	42170	3.0	—	28500	—	—	1.80	0.57
125-26	S-21-2*	Map Location 21A. Seepage from Mine Tunnel	Apr-62	32900	26400	3.10	—	15800	—	—	0.06	0
125-26	S-21-3*	Map Location 21A (?). Pipe at mouth of Mine Tunnel	Feb-54	21000	12500	2.8	—	3400	—	—	0.01	0.1
125-26	S-22-1	Map Location 22. Horse ?? [illegible] Tailings	Nov-71	—	—	1	—	—	—	—	—	—

Reference #	Station	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Hg (mg/L)	Ag (mg/L)	Zn (mg/L)	F (mg/L)	Al (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	%Na (percent)	K (mg/L)	SO_4 (mg/L)	Cl (mg/L)	NO_3 (mg/L)	B (mg/L)	SiO_2 (mg/L)	HCO_3 (mg/L)	CO_3 (mg/L)
125-26	S-1-2*	0.3	—	—	—	—	—	—	—	33	7	37	—	—	32	11	—	—	—	181	—
125-26	S-1-2*	0.32	—	0.47	—	—	—	0.1	0.1	37	28	17	—	1.9	100	13	8.8	0.35	12	132	0
125-26	S-1-4*	0.00	—	0.00	—	—	—	0.1	0.4	54	44	41	—	1.7	100	[illegible]	0.0	2.4	11	250	0
125-26	S-1-6*	0.05	0.00	0.00	[illegible]	—	0.00	—	0.03	37	13	15	—	0.8	38	7.8	3.0	0.3	12	154	8
125-26	S-1-8*	—	—	—	[illegible]	—	—	—	—	35	13	9	—	0.4	—	4.4	0.1	0.1	17	180	0
125-26	S-4-1*	—	—	—	[illegible]	—	—	—	—	45	23	21	—	0.84	50	14	—	—	7.6	—	—
125-26	S-3-1*	0	—	—	—	—	0	0.2	0.07	105	98	86	—	3.0	467	[illegible]	4.4	9.6	9.2	142	0
125-26	S-3-1*	0	—	0	—	—	0	0.1	0.1	65	38	29	—	0.9	100	78	1.8	4.7	18	202	0
125-26	S-4-1*	118	—	2.4	—	—	0.64	—	260	57	27	55	—	5.3	1500	100	0.3	3.5	—	0	0
125-26	S-4-2*	881	—	—	—	—	—	—	—	338	354	—	—	—	2580	4951	—	>100	—	—	—
125-26	S-4-2*	2640	—	—	—	—	—	—	—	656	1720	—	—	—	36145	[illegible]	—	121	76	ND	ND
125-26	[illegible]	6.0	ND	0.40	0.012	ND	0.09	[illegible]	—	40	17	25	—	1.2	540	95	—	—	44	—	—
125-26	S-6-1*	300	—	—	—	—	—	—	—	341	94	—	—	—	2362	[illegible]	—	—	—	—	—
125-26	S-6-2*	3.0	—	—	—	—	—	—	—	155	197	378	—	—	1137	[illegible]	—	—	—	15	—
125-26	S-6-2*	2.8	—	—	—	—	—	—	—	80	122	—	—	—	1140	149	—	3.8	24	0	—
125-26	S-6-4*	100	—	2.6	—	—	—	0.3	0.3	76	83	80	—	1.7	[illegible]	75	[illegible]	6.9	—	0	0
125-26	S-6-6*	[illegible]	—	0	—	—	0	0.2	0.4	65	45	58	—	2.1	280	84	0.9	4.8	9.5	174	0
125-26	S-6-8*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-7*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-8*	40.1	<0.01	0.039	<0.0002	—	<0.05	[illegible]	—	41.4	47.1	48.4	—	—	109	40.1	—	—	—	134	—
125-26	S-6-9*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-10*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-11*	0.11	0.2	0.01	0.0002	—	0.05	—	—	[illegible]	61	100	—	[illegible]	222	61	0.9	4.7	—	—	—
125-26	S-6-1*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-2*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-6*	—	—	—	—	—	—	—	—	86	181	—	—	—	680	360	5.7	47	—	—	—
125-26	S-6-4*	—	—	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-6-8	43	—	—	0.072	—	—	—	—	262	475	1480	—	49	3819	1440	9.3	45	—	61	0
125-26	S-6-7	40	0.02	5.9	0.004	—	0.41	—	—	324	[illegible]	2090	—	70	[illegible]	2050	10	140	—	—	—
125-26	S-6-8*	0.71	0.24	10.1	0.002	—	0.11	—	0.09	610	898	2300	—	137	7300	3100	—	—	180	—	—
125-26	S-6-9*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-7-1*	[illegible]	0	3.3	—	—	0.01	0.1	0.09	100	94	292	—	0.8	326	400	1.1	—	18	156	0
125-26	S-7-2	—	—	—	0.0002	—	—	—	—	87	54	117	—	3.4	445	126	—	—	0.8	77	0
125-26	S-7-3*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-9-1*	2.4	—	0.31	—	—	—	0.1	0.8	118	26	31	—	1.6	153	28	15	—	0.71	140	0
125-26	S-9-2	0	—	0	—	—	0	0.2	0	84	34	50	—	1.8	112	44	24	—	0.9	288	0
125-26	S-8-1*	0.2	—	—	—	—	—	—	—	49	22	—	—	—	212	45	—	—	—	—	—
125-26	S-8-2*	—	—	—	—	—	—	—	—	69	35	—	—	—	134	40	—	—	—	—	—
125-26	S-8-3*	0.3	—	—	—	—	—	—	—	70	30	—	—	—	307	58	—	—	—	—	—
125-26	S-8-4*	0.2	—	—	—	—	—	—	—	46	30	40	—	—	41	51	—	—	—	—	—
125-26	S-8-5*	0.16	—	—	—	—	—	—	—	44	25	—	—	—	34	38	—	—	0.65	182	—
125-26	S-8-6*	—	—	—	—	—	—	—	—	25	16	—	—	—	33	24	0.3	—	0.2	—	—
125-26	S-10-1*	0	—	0.01	—	—	—	0	[illegible]	30	13	22	—	0.8	15	50	0.2	—	0.3	146	0
125-26	S-10-2*	0	—	[illegible]	—	—	0	0	[illegible]	42	30	31	—	1.0	30	60	0.8	—	1.9	204	0
125-26	S-11-1*	—	—	—	—	—	—	—	—	150	115	341	—	5.6	320	665	23	—	22	181	54
125-26	S-12-1*	<0.7	<0.05	8.2	<0.0002	<0.008	<0.01	—	<0.06	[illegible]	[illegible]	[illegible]	[illegible]	180	1320	4220	14.5	—	259	—	—
125-26	S-12-2*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-12-3*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-13-1*	17	—	—	—	—	—	—	64.7	550	1400	—	—	—	—	—	—	>100	—	0	—
125-26	S-13-2*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-13-3*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-13-4*	—	—	—	—	—	—	—	—	160	395	—	—	—	1400	[illegible]	14	233	—	—	—
125-26	S-14-1*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-14-2*	[illegible]	[illegible]	12	0.09	0	0.44	—	—	330	851	444	—	22	3810	630	26	36	—	—	—
125-26	S-14-3*	[illegible]	2	8.4	0.002	<0.01	0.44	—	—	190	280	280	—	24	—	—	—	—	—	ND	ND
125-26	S-15-1*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-15-2*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-15-3*	130	<0.05	30	0.004	0.01	0.39	—	23	305	510	666	—	45.6	7300	1990	2.1	53.7	—	—	—
125-26	S-16-1	43	—	—	—	—	—	—	—	63	22	5150	—	—	223	[illegible]	—	—	—	—	—
125-26	S-16-2*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-17-1*	2	—	—	—	—	—	—	—	90	214	5226	—	—	830	7100	—	—	—	—	—
125-26	S-17-2*	60	—	—	—	—	—	—	—	—	—	—	—	—	[illegible]	300	—	—	—	—	—
125-26	S-17-3*	150	—	—	—	—	—	—	—	—	—	—	—	—	[illegible]	[illegible]	—	—	—	—	—
125-26	S-17-4*	80	—	—	—	—	—	—	—	—	—	—	—	—	[illegible]	[illegible]	—	—	—	—	—
125-26	S-17-5*	600	—	—	—	—	—	—	—	313	191	—	—	—	[illegible]	[illegible]	—	—	—	—	—
125-26	S-17-6*	500	—	—	—	—	—	—	—	812	169	—	—	—	[illegible]	[illegible]	—	—	—	—	—
125-26	S-17-7*	100	—	—	—	—	—	—	—	417	514	—	—	—	[illegible]	[illegible]	—	—	—	—	—
125-26	S-17-8*	>100	—	—	—	—	—	—	—	633	1040	—	—	—	[illegible]	[illegible]	—	—	—	0	—
125-26	S-17-9*	258	—	—	—	—	—	—	—	80	113	—	—	—	[illegible]	[illegible]	—	8.2	—	0	—
125-26	S-17-10*	5.5	—	—	—	—	—	—	—	87	6.5	100	—	2.8	[illegible]	[illegible]	[illegible]	13	—	150	0
125-26	S-17-11	—	—	0.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-17-12	[illegible]	0.12	18	0.0015	0.07	[illegible]	—	—	412	836	[illegible]	—	42	[illegible]	1700	4.1	120	—	—	—
125-26	S-17-13	—	0.08	—	0.084	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-17-14*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-18-1*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-18-2*	—	1.4	54	0.017	0.4	10	—	—	290	[illegible]	[illegible]	—	2.8	31400	[illegible]	227	33	—	—	—
125-26	S-19-1*	[illegible]	<0.05	54	0.12	<0.01	4.4	—	[illegible]	214	780	[illegible]	—	1.6	[illegible]	304	[illegible]	26.2	—	—	—
125-26	S-19-2*	1388	0.01	4.9	0.17	—	8.0	—	—	214	1088	291	—	—	[illegible]	442	—	—	—	NL	NL
125-26	S-19-3*	—	—	27	0.19	—	—	—	—	100	1100	310	—	0.25	24000	[illegible]	—	—	—	<2.5	<2.5
125-26	S-19-4*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-55	S-19-5*	[illegible]	0.01	—	—	—	0.28	—	—	375	742	4330	—	190	8770	3740	30	330	—	—	—
125-26	S-19-7*	11	<0.01	—	0.17	9	<0.05	—	—	[illegible]	787	1325	—	—	5311	5318	—	—	—	<0.05	NL
125-26	S-20-1*	1.07	0.26	7.40	0.010	—	[illegible]	—	<0.05	[illegible]	[illegible]	2700	—	14	[illegible]	3700	2.5	160	—	—	—
125-26	S-20-2*	—	—	6.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
125-26	S-21-1*	8020	—	—	—	—	13	—	2030	198	58	4870	—	52	33400	1770	4.1	112	—	0	0
125-26	S-21-2*	4250	—	25	—	—	12	—	933	348	807	2660	—	13	13300	4200	58	92	—	0	0
125-26	S-21-3*	2530	0	24	—	—	8.7	—	173	300	602	3120	—	113	4200	1700	—	221	—	0	0
125-26	S-22-1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Appendix A
Mount Diablo Mercury Mine
Contra Costa County, California

Reference #	Station	Location	Date Sampled	EC (µmhos)	TDS (mg/L)	pH (units)	Turbidity (JTU)	Hardness (mg/L)	Alkalinity (mg/L)	[illegible] (mg/L)	[illegible] (mg/L)	Cu (mg/L)	Fe (mg/L)	[illegible] (mg/L)	Mn (mg/L)	Hg (mg/L)	Ag (mg/L)	Zn (mg/L)	F (mg/L)	Al (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	%Na (percent)	K (mg/L)	SO_4 (mg/L)	Cl (mg/L)	NO_3 (mg/L)	B (mg/L)	SiO_2 (mg/L)	HCO_3 (mg/L)	CO_3 (mg/L)
125-28	[illegible]	Map Location 22A. Northern State Park Spring.	Oct-[illegible]	[illegible]	14000	[illegible]	50	8200	–	–	<0.004?	[illegible]	28.3	0.24	45.4	[illegible]	–	0.06	–	<0.5	532	872	2000	–	130	[illegible]	2700	[illegible]	160	–	440	–
125-28	[illegible]	Map Location 22B. [illegible] State Park Land.	[illegible]	15400	[illegible]	[illegible]	–	2345	[illegible]	–	[illegible]	[illegible]	34.8	[illegible]	4.6	[illegible]	[illegible]	[illegible]	–	<0.05	[illegible]	[illegible]	[illegible]	–	122	[illegible]	[illegible]	[illegible]	[illegible]	–	–	–
125-28	[illegible]	Map Location 22C. [illegible] State Park Land.	[illegible]	26300	[illegible]	7.4	–	2019	[illegible]	–	[illegible]	[illegible]	<0.1	[illegible]	2.2	[illegible]	[illegible]	[illegible]	–	0.099	187	[illegible]	[illegible]	–	140	[illegible]	[illegible]	[illegible]	[illegible]	–	–	–
125-28	[illegible]	Map Location 22D. [illegible] Creek [illegible] park drainage.	[illegible]	[illegible]	[illegible]	[illegible]	–	[illegible]	–	–	–	<0.25	4	<0.001	[illegible]	[illegible]	–	[illegible]	–	–	[illegible]	[illegible]	[illegible]	–	–	[illegible]	[illegible]	–	–	–	[illegible]	NIL
125-28	[illegible]	Map Location 22E. [illegible] drainage [illegible] upper end.	[illegible]	[illegible]	[illegible]	[illegible]	–	3257	–	–	–	[illegible]	4.6	<0.01	[illegible]	[illegible]	–	<0.05?	–	–	[illegible]	[illegible]	2644	–	–	[illegible]	[illegible]	–	–	–	563	NIL
125-28	[illegible]	Map Location 23. Dunn Creek above surface impoundment.	[illegible]	[illegible]	–	[illegible]	–	–	–	–	–	–	–	–	–	–	–	–	–	–	[illegible]	[illegible]	–	–	–	[illegible]	67	1.8	2.4	–	–	–
125-28	[illegible]	Map Location 23A. Dunn Creek [illegible] confluence with Horse [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	–	[illegible]	–	–	–	0.01	[illegible]	–	–	[illegible]	–	–	–	–	[illegible]	[illegible]	32	–	[illegible]	107	[illegible]	[illegible]	0.6	–	200	0
125-28	[illegible]	Map Location 23B. Dunn Creek above confluence with Horse Creek.	May-[illegible]	[illegible]	–	8.2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Aug-[illegible]	–	–	7.8	–	–	278	–	–	–	0.2	–	–	–	–	–	–	–	229	142	[illegible]	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	May-45	–	–	[illegible]	–	–	–	–	–	–	8	–	–	–	–	–	–	–	83	66	–	–	–	[illegible]	349	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Dec-46	–	–	7.2	–	–	–	–	–	–	7	–	–	–	–	–	–	–	83	47	–	–	–	[illegible]	246	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Mar-46	–	–	[illegible]	–	–	–	–	–	–	[illegible]	–	–	–	–	–	–	–	88	35	–	–	–	170	62	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Feb-49	–	667	[illegible]	[illegible]	–	632	–	–	–	[illegible]	–	–	–	–	–	–	–	59	40	106	–	–	239	110	–	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Jun-50	–	830	7.7	0	–	–	–	–	–	[illegible]	–	–	–	–	–	–	–	98	42	104	–	–	210	138	0.8	–	–	–	–
125-28	[illegible]	Map Location 24A. Marsh Creek at [illegible]	Mar-51	2270	–	7.61	–	–	–	–	–	–	14	–	–	–	–	–	–	–	159	93	–	–	–	[illegible]	[illegible]	77	–	–	–	–
125-28	[illegible]	Map Location 25. Marsh Creek 300 ft above confluence with Dunn creek.	Feb-52	[illegible]	[illegible]	8.4	[illegible]	[illegible]	–	–	0.02	0.16	0.2	–	[illegible]	–	–	–	0.2	0.5	52	29	33	–	1.4	[illegible]	25	2.1	0.45	–	225	6
125-28	[illegible]	Map Location 26. Marsh Creek 300 ft above confluence with Perkins? creek.	Apr-52	285	732	8.1	[illegible]	[illegible]	–	–	0	0	[illegible]	–	[illegible]	[illegible]	–	0	0.2	0	40	45	49	–	1.7	[illegible]	40	0.6	0.8	–	232	0
125-28	[illegible]	Map Location 26(?). Mine drainage.	Aug-39	–	–	3	[illegible]	–	1540	–	–	–	[illegible]	–	–	–	–	–	–	–	88	199	[illegible]	–	–	[illegible]	7650	–	–	–	–	–
125-28	[illegible]	Map Location 8. ? Watering well, completed in the ??	Sep-50	[illegible]	[illegible]	7.8	–	57	–	–	–	–	[illegible]	–	–	–	–	–	–	–	15	11.6	–	–	–	[illegible]	1320	1.9	75	–	724	–
125-28	[illegible]	Map Location 8. ? Watering well, completed in the ??	Apr-52	[illegible]	[illegible]	7.5	[illegible]	[illegible]	–	–	[illegible]	[illegible]	[illegible]	–	[illegible]	–	–	2.3	–	0.01	6.8	11.8	113	–	3.5	[illegible]	56	[illegible]	[illegible]	–	96	0
125-28	[illegible]	Map Location 23. [illegible]	Jul-[illegible]	[illegible]	[illegible]	7.6	[illegible]	199	564	–	<0.1	[illegible]	<0.1	<0.05	0.73	<0.0005	<0.005	0.042	–	<0.05	4.5	13.3	[illegible]	–	10.9	173	[illegible]	4	[illegible]	–	–	–
125-28	[illegible]	Map Location 24. [illegible] well.	Jul-[illegible]	[illegible]	[illegible]	8.2	–	19	950	–	<0.1	<0.001	<0.1	<0.05	[illegible]	<0.0002	<0.02	<0.01	–	<0.05	2.5	5	335	–	8.2	304	[illegible]	[illegible]	3.3	–	–	–
125-28	[illegible]	Map Location 24. [illegible] in alluvium.	Nov-[illegible]	[illegible]	[illegible]	[illegible]	–	139	–	–	–	–	–	–	–	–	–	–	–	–	40.5	8.48	–	–	–	43.2	[illegible]	[illegible]	0.5	–	170	–
125-28	[illegible]	Map Location [illegible] in alluvium.	Apr-[illegible]	[illegible]	272	7.8	–	214	–	–	0.04	[illegible]	0.12	–	[illegible]	–	–	2.4	–	0	56	17	13	–	0.7	[illegible]	11	[illegible]	0.06	–	258	–
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Jun-[illegible]	–	[illegible]	7.4	–	350	270	–	–	–	[illegible]	–	–	–	–	–	–	–	72	37	[illegible]	–	–	[illegible]	112	[illegible]	–	–	–	0
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Sep-[illegible]	[illegible]	[illegible]	7.5	–	1170	246	–	–	–	[illegible]	–	–	–	–	–	–	–	242	137	–	–	–	[illegible]	[illegible]	[illegible]	75	–	376	–
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Nov-[illegible]	[illegible]	[illegible]	7.4	–	[illegible]	–	–	–	–	[illegible]	–	–	–	–	–	–	–	69.9	44	–	–	–	[illegible]	[illegible]	[illegible]	18	–	179	–
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Feb-[illegible]	[illegible]	200	[illegible]	–	108	–	–	0.01	0.72	8	–	0	[illegible]	–	0	–	0	22	13	31	–	0.2	22	[illegible]	[illegible]	0.85	–	148	0
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Nov-[illegible]	[illegible]	314	8.1	–	210	–	–	0	0	0	–	0	–	–	0	–	0	[illegible]	23	30	–	1.5	32	[illegible]	[illegible]	98	–	236	0
125-28	[illegible]	Map Location 16. ? Well, completed in alluvium.	Jul-[illegible]	[illegible]	5870	7.1	–	[illegible]	–	–	–	–	0.04	–	–	–	–	–	–	–	77	[illegible]	677	–	0	1240	[illegible]	[illegible]	83	–	190	0
125-28	W-17-1	Map Location 17. Shallow well at ?? Completed in alluvium.	Aug-39	–	–	7.3	–	–	280	–	–	–	4	–	[illegible]	–	–	–	–	–	360	47	206	–	–	[illegible]	[illegible]	–	–	–	240	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Feb-40	–	–	–	–	–	[illegible]	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	May-40	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Mar-40	–	–	–	–	–	–	–	–	–	0.1	–	–	–	–	–	–	–	–	–	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Feb-[illegible]	–	–	–	–	–	264	–	–	–	–	–	–	–	–	–	–	–	119	57	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	May-43	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	48	32	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Dec-45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	83	101	–	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Mar-49	–	[illegible]	7	–	540	[illegible]	–	–	–	0.4	–	–	–	–	–	–	–	128	[illegible]	156	–	–	[illegible]	[illegible]	–	–	–	–	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Jun-50	–	780	7.8	–	365	–	–	–	–	0	–	–	–	–	–	–	–	79	111	115	–	–	[illegible]	[illegible]	1.5	–	–	1.8	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Sep-50	1720	721	7.8	–	[illegible]	77	–	–	–	0.04	–	–	–	–	–	–	–	95	118	–	–	–	[illegible]	[illegible]	1.9	75	–	1.9	–
125-28	[illegible]	Map Location 17. Shallow well at ?? Completed in alluvium.	Nov-50	1380	861	7.2	–	470	–	–	–	–	0.15	–	–	–	–	–	–	–	101	68	–	–	–	250	160	4.3	7.4	–	4.3	–
--	[illegible]	Surface Pond Water Sample Collected Approx. 30 Feet from the Mouth of the Creek Feeding the Pond. The Sample Was [illegible] When Collected	Jun-8?	4000	3600	[illegible]	–	–	270	–	0.01	<0.01	34	<0.1	6.0	<0.0002	<0.01	0.01	2.2	–	230	260	540	–	4.2	1600	410	–	–	15	–	–

Data analogous to 2010 [illegible] sampling location
pH or mercury data
Source: [illegible], J.L., [illegible] Associates, and [illegible], J. 1989. Mount Diablo Mine Surface Impoundment Technical Report. June 30.

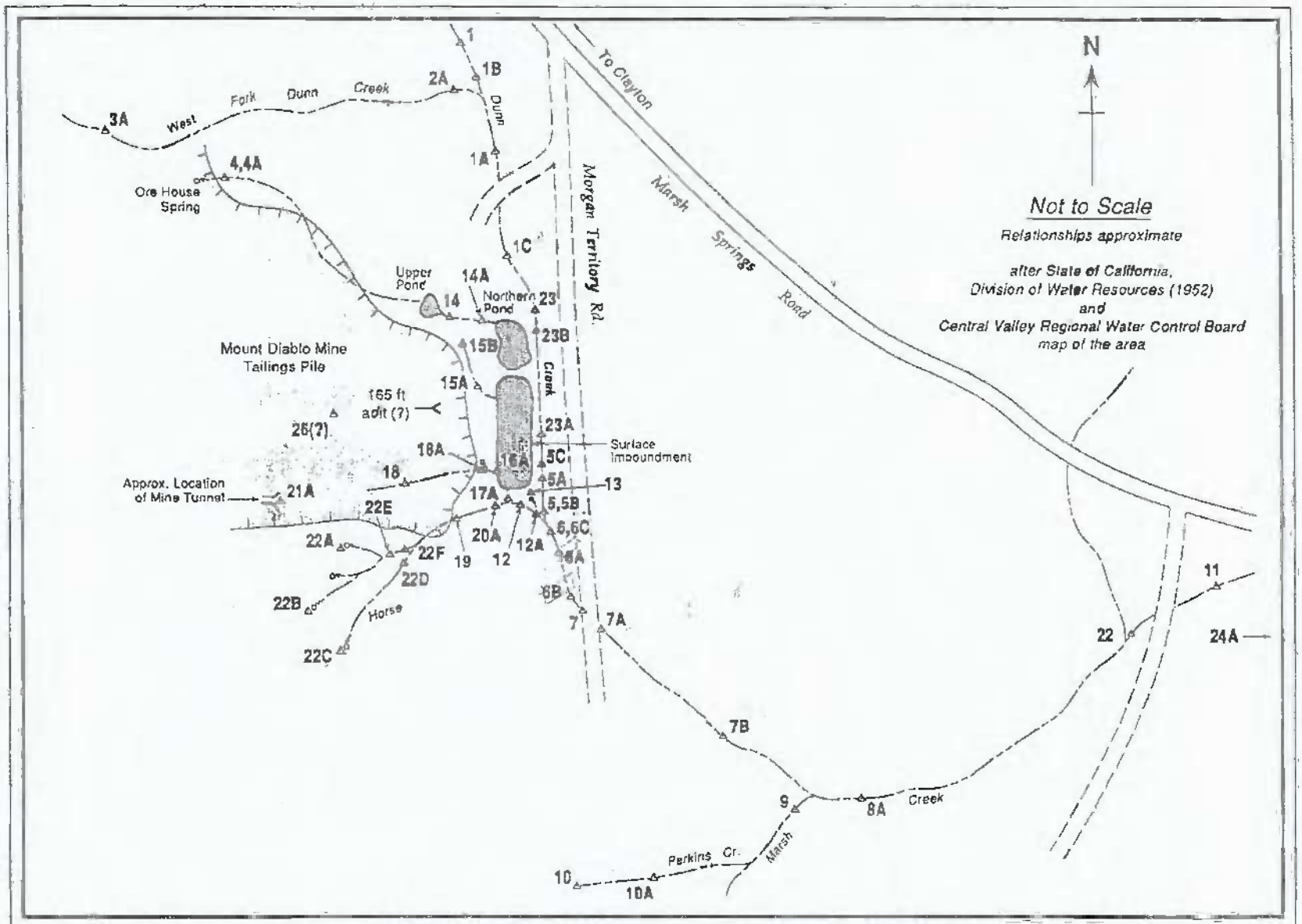


Figure 3 Location Map for Surface Water Samples Collected Near the Mount Diablo Mine Surface Impoundment

A Dunn Creek upstr. of pond at Morgan Terr. Rd. & Marsh Cr. Rd.
B Dunn Creek upstr. of pond outlet
C Dunn Creek downstr. of pond outlet, after confluence w/ Horse Cr.
C1 + soil
D Dunn Creek downstr. of pond at Morgan Terr. Rd.
E Horse Creek upstream of pond outlet
F Perkins Creek above ~~mouth~~ confl. w/ Marsh Cr.
G Curry Creek above ~~mo~~ confl. w/ Marsh Cr.

→H Marsh Creek upstr. of Dunn Cr. (@ Morgan Terr. Rd.)
J Marsh Creek downstr. of pond @ Prison Farm
K Marsh Creek downstr. of pond below Hog Creek (5 mi. below mine)
L Marsh Creek downstr. of pond @ gaging stn. above Marsh Cr reservoir (10 mi. below ~~da~~ mine)
I Marsh Creek below confl. w/ Dunn Cr. - downstr. of pond
→H Marsh Creek above Perkins Canyon - upstr. of pond
→H Marsh Creek above confl. w/ Dunn Cr. - upstr. of pond

M Drainage from mine &/or tailings on Wessman property
N Drainage from ponded area north of tailings
P Springs on State Park land
Q Alkali spring below & east of pond / dam

R Mine pond - water
Mine pond - sludge

S Zuur well
T Prison Farm well
U Marsh Cr. Springs Resort well

APPENDIX B

SELECTED SITE PHOTOGRAPHS

REFERENCED SAMPLE LOCATIONS PHOTOGRAPHS

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-1: *Capped area located at the top area of the Bradley tailings piles and waste rock.*

Photograph B-2: *Capped area overlying the historic collapsed main mine workings area.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-3: *Captured surface water flow directed into upper pond (sample location SW-06).*

Photograph B-4: *Park Spring (sample location SW-04).*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-5: *Ore House spring (sample location SW-14).*

Photograph B-6: *Storm water from upper mine working routed around the lower pond (right) via Dunn Creek (left).*

GENERAL SAMPLE LOCATIONS AND SITE PHOTOGRAPHS

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-7: *My Creek retention pond (sample location SW-11).*

Photograph B-8: *Lower pond looking up toward Bradley tailing piles.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-9: *Runoff from upper Bradley mine tailings (sample location SW-02).*

Photograph B-10: *Runoff from upper Bradley tailing piles (sample location SW-02).*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-11: *Upper Bradley tailing piles*

Photograph B-12: *Upper Bradley tailing piles*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-13: *Sample location **SW-01**.*

Photograph B-14: *Bradley tailing piles showing sample location SW-03.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-15: *Runoff from vicinity of former 165-ft adit opening (sample location SW-01).*

Photograph B-16: *Upper pond (sample location SW-6).*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-17: *Looking upstream from My Creek (sample location **SW-12**).*

Photograph B-18: *Middle pond looking to lower pond.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-19: *Dunn Creek and middle pond outlet.*

Photograph B-20: *Middle pond looking toward upper pond.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-21: *Dunn Creek showing out flow from middle pond.*

Photograph B-22: *Outflow from middle pond to Dunn Creek (sample location SW-10).*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-23: *My Creek upstream of northern waste dump area (sample location SW-12).*

Photograph B-24: *Surface water drainage from upper mine working area.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-25: *Surface water drainage from upper mine working area.*

Photograph B-26: *Calcine tailings above upper pond area. Drains to upper pond.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-27: *Drainage under road toward upper pond.*

Photograph B-28: *Surface water drainage from upper mine working area.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-29: *Mining debris in northern waste dump above My Creek.*

Photograph B-30: *Mining debris in northern waste dump above My Creek.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-31: *Northern waste dump.*

Photograph B-32: *Calcine tailings.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-33: *Bradley waste pile above lower pond.*

Photograph B-34: *Looking downhill from Ore House spring.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-35: *Ore House spring.*

Photograph B-36: *Weir on My Creek below retention pond (sample location SW-13).*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

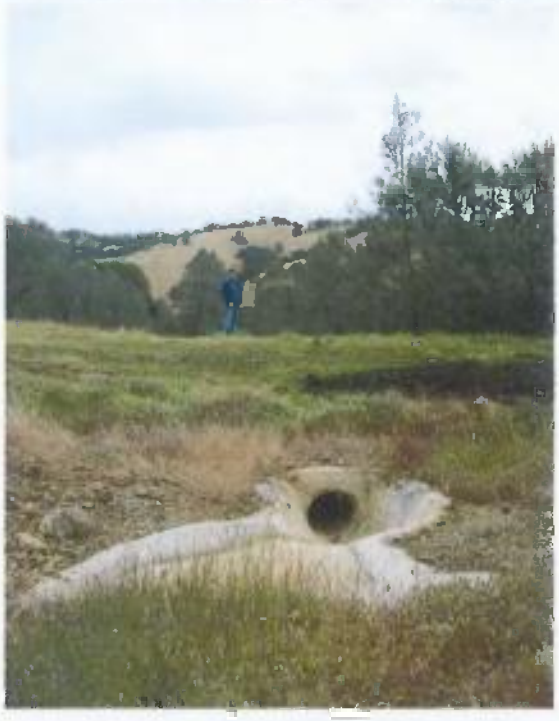
Photograph B-37: *Weir on My Creek below retention pond (sample location SW-13).*

Photograph B-38: *Storm water runoff outlet piping from upper mine workings area.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-39: *Storm water runoff outlet piping from upper mine workings area.*



Photograph B-40: *Storm water runoff outlet piping from upper mine workings area.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-41: *Mt. Diablo State Park spring (sample location SW-04).*

Photograph B-42: *Surface water runoff channel to upper pond.*

Client Name: Sunoco, Inc. **Photo Date:** April and May 2010

Project: Sunoco Mt. Diablo, ACP

Photograph B-43: *Surface water runoff channel from upper Bradley tailings pile (sample location SW-02).*

Photograph B-44: *Bradley runoff waste pile.*

APPENDIX C

2010 SAMPLING PROGRAM CHAIN OF CUSTODY AND LABORATORY REPORTS

Technical Report for

The Source Group

Mt. Diablo- Marsh Creek Road

01-SUN-050

Accutest Job Number: C10601

Sampling Date: 04/12/10

Report to:

The Source Group
3451C Vincent Road
Pleasant Hill, CA 94523
jphilipp@thesourcegroup.net

ATTN: Jon Philipp

Total number of pages in report: 61

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Anne Kathain 408-588-0200

Certifications: CA (08258CA)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

The Source Group

Job No: C10601

Mt. Diablo- Marsh Creek Road
Project No: 01-SUN-050

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C10601-1	04/12/10	13:55	NCJP	04/13/10	AQ	Surface Water	MTD-SW-01
C10601-1F	04/12/10	13:55	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-01
C10601-2	04/12/10	14:25	NCJP	04/13/10	AQ	Surface Water	MTD-SW-02
C10601-2F	04/12/10	14:25	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-02
C10601-3	04/12/10	14:15	NCJP	04/13/10	AQ	Surface Water	MTD-SW-03
C10601-3F	04/12/10	14:15	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-03
C10601-4	04/12/10	14:35	NCJP	04/13/10	AQ	Surface Water	MTD-SW-04
C10601-4F	04/12/10	14:35	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-04
C10601-5	04/12/10	15:10	NCJP	04/13/10	AQ	Surface Water	MTD-SW-05
C10601-5F	04/12/10	15:10	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-05
C10601-6	04/12/10	13:35	NCJP	04/13/10	AQ	Surface Water	MTD-SW-06
C10601-6F	04/12/10	13:35	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-06
C10601-7	04/12/10	15:30	NCJP	04/13/10	AQ	Surface Water	MTD-SW-07

Sample Summary
(continued)

The Source Group

Job No: C10601

Mt. Diablo- Marsh Creek Road
Project No: 01-SUN-050

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C10601-7F	04/12/10	15:30	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-07
C10601-8	04/12/10	14:45	NCJP	04/13/10	AQ	Surface Water	MTD-SW-08
C10601-8F	04/12/10	14:45	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-08
C10601-9	04/12/10	15:00	NCJP	04/13/10	AQ	Surface Water	MTD-SW-09
C10601-9F	04/12/10	15:00	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-09
C10601-10	04/12/10	15:20	NCJP	04/13/10	AQ	Surface Water	MTD-SW-10
C10601-10F	04/12/10	15:20	NCJP	04/13/10	AQ	Surface H2O Filtered	MTD-SW-10

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: MTD-SW-01
Lab Sample ID: C10601-1
Matrix: AQ - Surface Water
Project: Mt. Diablo- Marsh Creek Road

Date Sampled: 04/12/10
Date Received: 04/13/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	10.1	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	72.0	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	18700	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	12.1	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	12.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	2140	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	13700	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	584	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	2.2	0.20	ug/l	1	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	1320	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	1850	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	4120	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	1670	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	28.2	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-01		
Lab Sample ID:	C10601-1	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 20:03	HD	EPA 300/SW846 9056A
Chloride	1.1	0.50	mg/l	1	04/13/10 20:03	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	2.4	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	< 0.10	0.10	mg/l	1	04/13/10 20:03	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	103	0.33	mg/l	1	04/26/10 15:58	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/13/10 20:03	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	8.8	0.11	mg/l	1	04/26/10 15:58	CT	SW846 6010B
Solids, Total Dissolved	224	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	341	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	191	5.0	mg/l	10	04/15/10 20:22	HD	EPA 300/SW846 9056A
Turbidity	13.0	0.50	NTU	1	04/13/10 13:18	PH	SM18 2130B
pH [c]	3.95		su	1	04/13/10 11:40	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-01		
Lab Sample ID:	C10601-1F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-02		
Lab Sample ID:	C10601-2	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	19.3	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	119	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	13900	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	130000	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	770	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	235	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	392000	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead [a]	< 10	10	ug/l	2	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	205000	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	5720	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	179	5.0	ug/l	25	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	23900	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	8680	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	29900	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	186000	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	646	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-02		
Lab Sample ID:	C10601-2	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	0.54	0.20	mg/l	1	04/13/10 20:21	HD	EPA 300/SW846 9056A
Chloride	163	25	mg/l	50	04/15/10 20:39	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	4.9	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	0.39	0.10	mg/l	1	04/13/10 20:21	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	1170	0.33	mg/l	1	04/26/10 16:03	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	1.6	0.10	mg/l	1	04/13/10 20:21	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	64.0	0.11	mg/l	1	04/26/10 16:03	CT	SW846 6010B
Solids, Total Dissolved	4450	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	5160	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	4570	250	mg/l	500	04/20/10 17:32	HD	EPA 300/SW846 9056A
Turbidity	7.7	0.50	NTU	1	04/13/10 13:18	PH	SM18 2130B
pH [c]	2.60		su	1	04/13/10 11:43	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-02		
Lab Sample ID:	C10601-2F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O.Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	175	5.0	ug/l	25	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-03		
Lab Sample ID:	C10601-3	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	112	40	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Arsenic	530	40	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Beryllium	8.3	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Boron	2660	200	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Cadmium	< 6.0	6.0	ug/l	3	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Calcium	124000	200	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Chromium	2790	20	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Copper	632	20	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Iron	1600000	200	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Lead	< 20	20	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Magnesium	414000	200	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Manganese	13000	20	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Mercury	73.6	2.0	ug/l	10	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [4]
Nickel	73400	20	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Potassium	2730	2000	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Selenium	< 60	60	ug/l	3	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Silicon	37300	200	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Silver	< 15	15	ug/l	3	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Sodium	34600	400	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Thallium	< 60	60	ug/l	3	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Zinc	2160	40	ug/l	4	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1179
(3) Instrument QC Batch: MA1183
(4) Prep QC Batch: MP2279
(5) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-03		
Lab Sample ID:	C10601-3	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide [a]	< 0.40	0.40	mg/l	2	04/14/10 10:38	HD	EPA 300/SW846 9056A
Chloride	53.5	2.5	mg/l	5	04/15/10 21:14	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	7.6	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride [a]	1.2	0.20	mg/l	2	04/14/10 10:38	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [b]	2010	1.3	mg/l	1	04/26/10 16:14	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate [a]	< 0.20	0.20	mg/l	2	04/14/10 10:38	HD	EPA 300/SW846 9056A
Silica, Dissolved [c]	79.8	0.43	mg/l	1	04/26/10 16:14	CT	SW846 6010B
Solids, Total Dissolved	16000	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	9710	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	13400	500	mg/l	1000	04/20/10 17:49	HD	EPA 300/SW846 9056A
Turbidity	84.0	2.5	NTU	5	04/13/10 13:18	PH	SM18 2130B
pH [d]	2.23		su	1	04/13/10 11:44	PH	SM18 4500H+ B

(a) Elevated detection limit due to matrix interference.
(b) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(c) Calculated as: (Silicon * 2.139)
(d) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-03		
Lab Sample ID:	C10601-3F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	34.7	2.0	ug/l	10	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-04		
Lab Sample ID:	C10601-4	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	2680	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	23600	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	18.4	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	6.9	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	6840	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	21700	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	79.6	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	0.45	0.20	ug/l	1	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	165	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	4120	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	11600	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	37600	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-04		
Lab Sample ID:	C10601-4	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	111	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	111	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 20:56	HD	EPA 300/SW846 9056A
Chloride	35.3	2.5	mg/l	5	04/15/10 21:49	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	8.3	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	< 0.10	0.10	mg/l	1	04/13/10 20:56	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	148	0.33	mg/l	1	04/26/10 16:20	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	0.56	0.10	mg/l	1	04/13/10 20:56	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	24.8	0.11	mg/l	1	04/26/10 16:20	CT	SW846 6010B
Solids, Total Dissolved	291	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	468	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	68.3	2.5	mg/l	5	04/15/10 21:49	HD	EPA 300/SW846 9056A
Turbidity	48.8	1.0	NTU	2	04/13/10 13:18	PH	SM18 2130B
pH [c]	7.69		su	1	04/13/10 11:46	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-04		
Lab Sample ID:	C10601-4F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.33	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: MTD-SW-05
Lab Sample ID: C10601-5
Matrix: AQ - Surface Water
Projeet: Mt. Diablo- Marsh Creek Road

Date Sampled: 04/12/10
Date Received: 04/13/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 10	10	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Arsenic [a]	< 50	50	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Boron	98700	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Calcium	449000	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Chromium	11.2	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Copper	21.6	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Iron	18300	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Lead	< 25	25	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Magnesium	400000	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Manganese	6350	25	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Mercury	7.9	0.20	ug/l	1	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [4]
Nickel	8760	25	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Potassium	43500	2500	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Selenium	< 20	20	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Silicon	11800	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Sodium	1190000	500	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Thallium	< 20	20	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Zinc	205	50	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1179
(3) Instrument QC Batch: MA1183
(4) Prep QC Batch: MP2279
(5) Prep QC Batch: MP2300

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-05		
Lab Sample ID:	C10601-5	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	127	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	127	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	5.7	0.20	mg/l	1	04/13/10 21:13	HD	EPA 300/SW846 9056A
Chloride	1490	250	mg/l	500	04/15/10 23:17	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	2.8	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride [a]	< 0.50	0.50	mg/l	5	04/15/10 23:34	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [b]	2770	1.7	mg/l	1	04/26/10 17:03	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	4.2	0.10	mg/l	1	04/13/10 21:13	HD	EPA 300/SW846 9056A
Silica, Dissolved [c]	25.2	0.53	mg/l	1	04/26/10 17:03	CT	SW846 6010B
Solids, Total Dissolved	6790	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	9220	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	3040	250	mg/l	500	04/15/10 23:17	HD	EPA 300/SW846 9056A
Turbidity	127	2.5	NTU	5	04/13/10 13:18	PH	SM18 2130B
pH [d]	7.16		su	1	04/13/10 11:51	PH	SM18 4500H+ B

(a) Elevated detection limit due to high concentration of Chloride.
(b) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(c) Calculated as: (Silicon * 2.139)
(d) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-05		
Lab Sample ID:	C10601-5F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	9.4	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: MTD-SW-06
Lab Sample ID: C10601-6
Matrix: AQ - Surface Water
Project: Mt. Diablo- Marsh Creek Road

Date Sampled: 04/12/10
Date Received: 04/13/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	61.5	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	53.2	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	712	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	18800	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	52.5	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	33.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	22800	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	6.8	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	25300	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	648	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	31.9	1.2	ug/l	6	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	1590	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	4890	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	24300	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	11400	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	78.1	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-06		
Lab Sample ID:	C10601-6	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 21:31	HD	EPA 300/SW846 9056A
Chloride	8.8	1.3	mg/l	2.5	04/15/10 23:52	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	4.5	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	< 0.10	0.10	mg/l	1	04/13/10 21:31	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	151	0.33	mg/l	1	04/26/10 16:25	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	0.48	0.10	mg/l	1	04/13/10 21:31	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	52.0	0.11	mg/l	1	04/26/10 16:25	CT	SW846 6010B
Solids, Total Dissolved	242	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	346	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	134	5.0	mg/l	10	04/16/10 00:09	HD	EPA 300/SW846 9056A
Turbidity	180	2.5	NTU	5	04/13/10 13:18	PH	SM18 2130B
pH [c]	6.08		su	1	04/13/10 11:55	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-06		
Lab Sample ID:	C10601-6F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.30	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-07		
Lab Sample ID:	C10601-7	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	304	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	22100	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	21.6	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	22.8	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	13200	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	12300	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	280	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	0.74	0.20	ug/l	1	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	81.8	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	3720	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	19900	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	9320	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	33.9	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-07		
Lab Sample ID:	C10601-7	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	77.4	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	77.4	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 21:49	HD	EPA 300/SW846 9056A
Chloride	6.5	0.50	mg/l	1	04/13/10 21:49	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	8.3	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	< 0.10	0.10	mg/l	1	04/13/10 21:49	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	106	0.33	mg/l	1	04/26/10 16:30	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	0.26	0.10	mg/l	1	04/13/10 21:49	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	42.6	0.11	mg/l	1	04/26/10 16:30	CT	SW846 6010B
Solids, Total Dissolved	210	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	236	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	18.4	1.3	mg/l	2.5	04/16/10 00:27	HD	EPA 300/SW846 9056A
Turbidity	178	2.5	NTU	5	04/13/10 13:18	PH	SM18 2130B
pH [c]	7.79		su	1	04/13/10 12:00	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-07		
Lab Sample ID:	C10601-7F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.24	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: MTD-SW-08
Lab Sample ID: C10601-8
Matrix: AQ - Surface Water
Project: Mt. Diablo- Marsh Creek Road

Date Sampled: 04/12/10
Date Received: 04/13/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	< 10	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	226	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	21700	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	31.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	33.6	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	19500	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	5.8	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	12500	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	388	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	0.61	0.20	ug/l	1	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	44.7	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	4170	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	26300	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	8110	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	48.7	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-08		
Lab Sample ID:	C10601-8	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	83.2	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	83.2	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 22:41	HD	EPA 300/SW846 9056A
Chloride	4.5	0.50	mg/l	1	04/13/10 22:41	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	8.9	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	< 0.10	0.10	mg/l	1	04/13/10 22:41	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	106	0.33	mg/l	1	04/26/10 16:35	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	0.18	0.10	mg/l	1	04/13/10 22:41	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	56.3	0.11	mg/l	1	04/26/10 16:35	CT	SW846 6010B
Solids, Total Dissolved	199	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	212	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	11.9	0.50	mg/l	1	04/13/10 22:41	HD	EPA 300/SW846 9056A
Turbidity	190	5.0	NTU	10	04/13/10 13:18	PH	SM18 2130B
pH [c]	7.73		su	1	04/13/10 12:12	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-08		
Lab Sample ID:	C10601-8F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: MTD-SW-09
Lab Sample ID: C10601-9
Matrix: AQ - Surface Water
Project: Mt. Diablo- Marsh Creek Road

Date Sampled: 04/12/10
Date Received: 04/13/10
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 10	10	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Arsenic	< 10	10	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Boron	73500	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Calcium	319000	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Chromium	26.3	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Copper	50.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Iron	13400	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Lead	< 5.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Magnesium	374000	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Manganese	5930	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Mercury	93.6	2.0	ug/l	10	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [4]
Nickel	11800	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Potassium	36000	500	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Selenium	< 20	20	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Silicon	13100	250	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Sodium	969000	500	ug/l	5	04/21/10	04/26/10	CT	SW846 6010B [3]	SW3010A [5]
Thallium	< 20	20	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]
Zinc	335	10	ug/l	1	04/21/10	04/22/10	CT	SW846 6010B [2]	SW3010A [5]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1179
(3) Instrument QC Batch: MA1183
(4) Prep QC Batch: MP2279
(5) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-09		
Lab Sample ID:	C10601-9	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	4.6	0.20	mg/l	1	04/13/10 22:59	HD	EPA 300/SW846 9056A
Chloride	1220	250	mg/l	500	04/16/10 01:02	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	25.7	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride [a]	< 0.50	0.50	mg/l	5	04/16/10 00:44	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [b]	2340	1.7	mg/l	1	04/26/10 17:08	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	1.8	0.10	mg/l	1	04/13/10 22:59	HD	EPA 300/SW846 9056A
Silica, Dissolved [c]	28.0	0.53	mg/l	1	04/26/10 17:08	CT	SW846 6010B
Solids, Total Dissolved	6120	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	8050	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B EPA 120.1
Sulfate	6620	250	mg/l	500	04/16/10 01:02	HD	EPA 300/SW846 9056A
Turbidity	13.8	0.50	NTU	1	04/13/10 13:18	PH	SM18 2130B
pH [d]	4.50		su	1	04/13/10 12:14	PH	SM18 4500H+ B

(a) Elevated detection limit due to high concentration of Chloride.
(b) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(c) Calculated as: (Silicon * 2.139)
(d) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-09		
Lab Sample ID:	C10601-9F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	85.3	2.0	ug/l	10	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-10		
Lab Sample ID:	C10601-10	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	35.4	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Arsenic	23.8	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Beryllium	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Boron	1350	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Cadmium	< 2.0	2.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Calcium	20200	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Chromium	25.4	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Copper	15.6	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Iron	9830	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Lead	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Magnesium	24500	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Manganese	554	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Mercury	18.0	0.80	ug/l	4	04/14/10	04/14/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [3]
Nickel	1460	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Potassium	3860	500	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Selenium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silicon	13500	50	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Silver	< 5.0	5.0	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Sodium	19200	100	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Thallium	< 20	20	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]
Zinc	52.1	10	ug/l	1	04/21/10	04/26/10	CT	SW846 6010B [2]	SW3010A [4]

(1) Instrument QC Batch: MA1166
(2) Instrument QC Batch: MA1183
(3) Prep QC Batch: MP2279
(4) Prep QC Batch: MP2300

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-10		
Lab Sample ID:	C10601-10	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface Water	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate	11.9	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	04/26/10	PH	SM18 4500CO2D
Alkalinity, Total as CaCO3	11.9	5.0	mg/l	1	04/26/10	PH	SM18 2320B
Bromide	< 0.20	0.20	mg/l	1	04/13/10 23:51	HD	EPA 300/SW846 9056A
Chloride	18.7	2.5	mg/l	5	04/16/10 01:37	HD	EPA 300/SW846 9056A
Dissolved Organic Carbon	4.8	1.0	mg/l	1	04/15/10	MF	SM18 5310C
Fluoride	0.12	0.10	mg/l	1	04/13/10 23:51	HD	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	151	0.33	mg/l	1	04/26/10 16:40	CT	SW846 6010B/SM 2340B
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/13/10 23:51	HD	EPA 300/SW846 9056A
Silica, Dissolved [b]	28.9	0.11	mg/l	1	04/26/10 16:40	CT	SW846 6010B
Solids, Total Dissolved	267	10	mg/l	1	04/15/10	MF	SM18 2540C
Specific Conductivity	422	1.0	umhos/cm	1	04/14/10	MF	SM18 2510B/EPA 120.1
Sulfate	148	13	mg/l	25	04/16/10 01:54	HD	EPA 300/SW846 9056A
Turbidity	125	2.5	NTU	5	04/13/10 13:18	PH	SM18 2130B
pH [c]	6.83		su	1	04/13/10 12:17	PH	SM18 4500H+ B

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Calculated as: (Silicon * 2.139)
(c) pH was analyzed past the 15min hold time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MTD-SW-10		
Lab Sample ID:	C10601-10F	**Date Sampled:**	04/12/10
Matrix:	AQ - Surface H2O Filtered	**Date Received:**	04/13/10
		Percent Solids:	n/a
Project:	Mt. Diablo- Marsh Creek Road		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.42	0.20	ug/l	1	04/20/10	04/21/10	RW	EPA 245.1 [1]	EPA 245.1/SW7470A [2]

(1) Instrument QC Batch: MA1177
(2) Prep QC Batch: MP2298

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

SUBCONTRACT

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # C10601

Client / Reporting Information

Company Name: The Source Group
Address: 3401C Mangini Road
City: Pleasant Hill State: California Zip: 94523
Project Contact: Jon Phillips E-mail: jphillips@thesourcegroup.net
Phone #: 925-944-2884 x3#
Sampler's Name: NC/JP

Project Information

Project Name: Mt. Diablo
Street: Marsh Creek Road
City: Clayton State: CA
Project #: 01-SUN-050
PO #: 925-944-2888
Client Purchase Order #: 01-SUN-050

Requested Analysis

Matrix Codes: DW-Drinking Water; GW-Ground Water; WW-Waste Water; SW-Surface Water; SO-Soil; SL-Sludge; OI-Oil; LIQ-Other Liquid; AIR-Air; SOL-Other Solid; WP-Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles	Mercury (dissolved/total)	Priority Pollutant Metals	Methyl Mercury	General Chem (Turbidity, Hardness, TDS, EC, pH), Ca, Cl, NO3, SO4	General Chemistry (various analytes)	B, K, Fe, Mn, Mg, Ca, Na, Si	Hardness (Ca, Mg)	Chl, F, SO4, Bod, NO3 (waters)	LAB USE ONLY
-1	MTD-SW-01		12-Apr	13:55	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	250mL poly
-2	MTD-SW-02		12-Apr	14:25	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	125mL (nitric)
-3	MTD-SW-03		12-Apr	14:15	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	PH2 (HC)
-4	MTD-SW-04		12-Apr	14:35	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	1x40 poly
-5	MTD-SW-05		12-Apr	15:10	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	each MP (HC)
-6	MTD-SW-06		12-Apr	13:35	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	
-7	MTD-SW-07		12-Apr	16:30	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	250mL Amber
-8	MTD-SW-08		12-Apr	14:45	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	glass (pH2)
-9	MTD-SW-09		12-Apr	15:00	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	(HC)
-10	MTD-SW-10		12-Apr	15:20	NC/JP	sw	3	1 1	X	X	X	X	X	X	X	X	1x30 - Subbed to Calest

Turnaround Time (Business days)

- X Std. 10 Business Days
- 10 Day RUSH
- 5 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- Other

Approved By/ Date:

Emergency T/A data available VIA Labilink

Data Deliverable Information

- Commercial "A"
- Commercial "B"
- NJ Reduced
- NJ Full
- Other

- FULL CLP
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format

Commercial "A" = Results Only

Comments / Remarks

Samples not filtered

Cooler #1 : 4.5 + 0.3 = 4.8°C

Cooler #2 : 3.1 + 0.3 = 3.4°C

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
	9:00 4/15/10	1	2	9:57 4/15/10	2
3	Date Time:	3	4	Date Time:	4
5	Date Time:	5	Custody Seal #	Preserved where applicable	On Ice: ✓ Cooler Temp: 2-coolers Recv'd

C10601: Chain of Custody
Page 1 of 2

Accutest Laboratories Northern California
Sample Receiving Check List

Job#: C10601
Sample Control Rep. Initial: EK

SGRPCAPH2614

Review Chain of Custody Chain of Custody is to be complete and legible.

- ✓ Are these regulatory (NPDES) samples? CWA — Yes / No
- ✓ Is pH requested? — Yes / No
- ✓ Was Client informed that hold time is 15 min? Yes / No Continue — Yes / No
- N/A ✓ Was ortho-Phosphate filtered with in 15 min? Yes / No Continue — Yes / No
- ✓ Are sample within hold time? — Yes / No
- Are sample in danger of exceeding hold-time — Yes / No
- ✓ Existing Client? Yes / No (New Client) Existing Project? New Project — Yes / No
- If No: Is Report to Info complete and legible, including: Setup by the PM
  - ✓ deliverable ✓ Name ✓ Address ☐ phone ☐ e-mail
- Is Bill to Info complete and legible, including:
  - ✓ PO# ☐ Credit card ☐ Contact address ☐ phone ☐ e-mail
- Is Contact and/or Project Manager identified, including:
  - ✓ phone ✓ e-mail
- ✓ Project name / number ☐ Special requirements? — Yes / No
- ✓ Sample IDs / date & time of collection provided? — Yes / No
- ✓ Is Matrix listed and correct? — Yes / No
- ✓ Analyses listed we do or client has authorized a subcontract? — Yes / No
- ✓ Chain is signed and dated by both client and sample custodian? — Yes / No
- ✓ TAT requested available? Yes / No Approved by pm

Review Coolers: 2 Coolers Rec'd.

- ✓ Were Coolers temperatures measured at ≤6°C? Cooler # ___ Temp ___ °C
  - If cooler is outside the ≤6°C; note down below the effected bottles in that cooler
  - Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)
- ✓ Shipment Received Method A.C. (W)
- ✓ Custody Seals: Present: Yes / No If Yes, Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- ✓ Chain matches bottle labels? Yes / No ✓ Sample bottle intact? Yes / No
- ✓ Is there enough sample volume in proper bottle for requested analyses? Yes / No
- ✓ Proper Preservatives? Yes / No Check pH on preserved samples except 1664, 625, 8270 and VOAs.
- ✓ Headspace-VOAs? Greater than 6mm in diameter Yes / No
  N/A List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues
-1	pH<2 ✓	250mL poly (plastic) metals
↓	↓	↓
-1D	↓	↓
		* mehg/l mercury -subbed to caltest.

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

4

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2279
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/14/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.02	.02	-0.020	<0.20

Associated samples MP2279: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2279
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/14/10

Metal	C10601-1 Original	MS	Spike Lot HGPWS1	% Rec	QC Limits
Mercury	2.2	6.0	4	95.0	70-130

Associated samples MP2279: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2279
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/14/10

Metal	C10601-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	2.2	5.9	4	92.5	1.7	20

Associated Samples: MP2279: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2279
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/14/10 04/14/10

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	BSD Result	Spikelot HGPWS1	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP2279: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2298
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/20/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.02	.02	0.058	<0.20

Associated samples MP2298: C10601-1F, C10601-2F, C10601-3F, C10601-4F, C10601-5F, C10601-6F, C10601-7F, C10601-8F, C10601-9F, C10601-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2298
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/20/10

Metal	C10601-9F Original	MS	Spikelot HGDWS1	% Rec	QC Limits
Mercury	85.3	92.5	4	180.0(a)	70-130

Associated samples MP2298: C10601-1F, C10601-2F, C10601-3F, C10601-4F, C10601-5F, C10601-6F, C10601-7F, C10601-8F, C10601-9F, C10601-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2298
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/20/10

Metal	C10601-9F Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	85.3	97.6	4	307.8(a)	5.4	20

Associated samples MP2298: C10601-1F, C10601-2F, C10601-3F, C10601-4F, C10601-5F, C10601-6F, C10601-7F, C10601-8F, C10601-9F, C10601-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2298
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/20/10 04/20/10

Metal	BSP Result	Spike Lot HGPWS1	% Rec	QC Limits	BSD Result	Spike Lot HGPWS1	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP2298: C10601-1F, C10601-2F, C10601-3F, C10601-4F, C10601-5F, C10601-6F, C10601-7F, C10601-8F, C10601-9F, C10601-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	14	21		
Antimony	10	6.9	5.3	6.2	<10
Arsenic	10	4.8	3.1	-2.7	<10
Barium	5.0	.6	.7		
Beryllium	5.0	.1	.2	0.0	<5.0
Boron	50	8.6	11	3.0	<50
Cadmium	2.0	.3	.3	0.10	<2.0
Calcium	50	29	12	16.9	<50
Chromium	5.0	.7	.6	0.20	<5.0
Cobalt	5.0	.4	.4		
Copper	5.0	.8	1.1	-0.10	<5.0
Iron	50	2.5	18	3.3	<50
Lead	5.0	3.3	1.3	0.50	<5.0
Lithium	10	2.2	2.5		
Magnesium	50	9.6	13	24.3	<50
Manganese	5.0	.3	.2	0.10	<5.0
Molybdenum	5.0	1.3	1		
Nickel	5.0	.8	.5	-0.10	<5.0
Potassium	500	28	60	24.8	<500
Selenium	20	11	12	3.1	<20
Silicon	50	3.4	5.3	-0.60	<50
Silver	5.0	.9	.7	0.60	<5.0
Sodium	100	15	13	6.8	<100
Strontium	10	3	2.4		
Thallium	20	6.5	6.4	2.6	<20
Tin	50	2.8	2		
Titanium	2.0	.2	.2		
Vanadium	5.0	.7	.5		
Zinc	10	.9	1.1	-0.10	<10

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10

Metal	C10680-1 Original	MS	Spikelot MPlR1	% Rec	QC Limits
Aluminum	anr				
Antimony	15.9	522	500	101.2	80-120
Arsenic	0.0	538	500	103.2	80-120
Barium					
Beryllium	0.0	515	500	103.0	80-120
Boron	117	642	500	105.0	80-120
Cadmium	11.3	517	500	101.1	80-120
Calcium	22900	23600	500	140.0(a)	80-120
Chromium	16.5	508	500	98.3	80-120
Cobalt					
Copper	97.9	595	500	105.4	80-120
Iron	1650	2130	500	96.0	80-120
Lead	12.1	517	500	101.0	80-120
Lithium					
Magnesium	13900	14500	500	120.0	80-120
Manganese	305	816	500	102.2	80-120
Molybdenum					
Nickel	31.9	526	500	98.8	80-120
Potassium	3520	8580	5000	101.2	80-120
Selenium	0.0	493	500	98.6	80-120
Silicon	4850	4390	250	136.0(a)	80-120
Silver	2.7	528	500	105.1	80-120
Sodium	113000	116000	500	600.0(a)	80-120
Strontium					
Thallium	0.0	470	500	94.0	80-120
Tin					
Titanium					
Vanadium					
Zinc	128	639	500	102.2	80-120

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10

Metal	C10680-1 Original	MSD	Spikelot MPIR1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	15.9	523	500	101.4	0.2	20
Arsenic	0.0	519	500	103.8	0.6	20
Barium						
Beryllium	0.0	519	500	103.8	0.8	20
Boron	117	649	500	106.4	1.1	20
Cadmium	11.3	519	500	101.5	0.4	20
Calcium	22900	22900	500	0.0 (a)	3.0	20
Chromium	16.5	514	500	99.5	1.2	20
Cobalt						
Copper	67.9	605	500	107.4	1.7	20
Iron	1650	2300	500	130.0N(b	7.7	20
Lead	12.1	520	500	101.6	0.6	20
Lithium						
Magnesium	13900	14400	500	100.0	0.7	20
Manganese	305	816	500	102.2	0.0	20
Molybdenum						
Nickel	31.9	523	500	100.2	1.3	20
Potassium	3520	8620	5000	103.0	0.5	20
Selenium	0.0	491	500	98.2	0.4	20
Silicon	4050	4450	250	160.0(a)	1.4	20
Silver	2.7	534	500	106.3	1.1	20
Sodium	113000	112000	500	-200.0(a	3.5	20
Strontium						
Thallium	0.0	467	500	93.4	0.6	20
Tin						
Titanium						
Vanadium						
Zinc	128	647	500	103.8	1.2	20

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

Metal

information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10 04/21/10

Metal	BSP Result	Spikelot MPIR1	% Rec	QC Limits	BSD Result	Spikelot MPIR1	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	496	500	99.2	80-120	500	500	100.0	0.8	
Arsenic	493	500	98.6	80-120	494	500	98.8	0.2	
Barium									
Beryllium	496	500	99.2	80-120	494	500	98.8	0.4	
Boron	518	500	103.6	80-120	515	500	103.0	0.6	
Cadmium	502	500	100.4	80-120	498	500	99.6	0.8	
Calcium	524	500	104.8	80-120	505	500	101.0	3.7	
Chromium	493	500	98.6	80-120	490	500	98.0	0.6	
Cobalt									
Copper	476	500	95.2	80-120	478	500	95.6	0.4	
Iron	525	500	105.0	80-120	515	500	103.0	1.9	
Lead	519	500	103.8	80-120	513	500	102.6	1.2	
Lithium									
Magnesium	524	500	104.8	80-120	511	500	102.2	2.5	
Manganese	501	500	100.2	80-120	501	500	100.2	0.0	
Molybdenum									
Nickel	503	500	100.6	80-120	499	500	99.8	0.8	
Potassium	5010	5000	100.2	80-120	4970	5000	99.4	0.8	
Selenium	500	500	100.0	80-120	498	500	99.6	0.4	
Silicon	266	250	106.4	80-120	265	250	106.0	0.4	
Silver	521	500	104.2	80-120	521	500	104.2	0.0	
Sodium	514	500	102.8	80-120	502	500	100.4	2.4	
Strontium									
Thallium	476	500	95.2	80-120	473	500	94.6	0.6	
Tin									
Titanium									
Vanadium									
Zinc	490	500	98.0	80-120	487	500	97.4	0.6	

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10

Metal	C10680-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	15.9	36.0	126.4(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium	0.00	0.00	NC	0-10
Boron	117	136	15.8 (a)	0-10
Cadmium	11.3	13.0	15.0 (a)	0-10
Calcium	22900	22800	0.2	0-10
Chromium	16.5	17.5	6.1	0-10
Cobalt				
Copper	67.9	68.0	0.1	0-10
Iron	1650	1630	1.2	0-10
Lead	12.1	0.00	100.0(a)	0-10
Lithium				
Magnesium	13900	13800	0.2	0-10
Manganese	305	304	0.6	0-10
Molybdenum				
Nickel	31.9	34.5	8.2	0-10
Potassium	3520	3570	1.2	0-10
Selenium	0.00	0.00	NC	0-10
Silicon	4050	3970	2.1	0-10
Silver	2.70	0.00	100.0(a)	0-10
Sodium	113000	113000	0.6	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium				
Zinc	128	131	2.2	0-10

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

QC Batch ID: MP2300
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/21/10

Metal	Sample ml	Final ml	C10680-1 Raw	Corr **	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	10	10.1	1652.4	1636.04	2120.7	0.05	100	495.04	97.9	-
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP2300: C10601-1, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9, C10601-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

General Chemistry

5

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN3656	5.0	0.0	mg/l	250	251	100.6	75-125%
Bromide	GP1649/GN3604	0.20	0.0	mg/l	5	4.95	99.0	90-110%
Chloride	GP1649/GN3604	0.50	0.0	mg/l	5	4.87	97.4	90-110%
Chloride	GP1654/GN3615	0.50	0.0	mg/l	5	4.58	91.6	90-110%
Dissolved Organic Carbon	GP1656/GN3621	1.0	0.72	mg/l	25	24.3	97.2	75-125%
Fluoride	GP1649/GN3604	0.10	0.028	mg/l	5	4.85	97.0	90-110%
Fluoride	GP1654/GN3615	0.10	0.035	mg/l	5	5.03	100.6	90-110%
Nitrogen, Nitrate	GP1649/GN3604	0.10	0.0	mg/l	5	4.76	95.2	90-110%
Nitrogen, Nitrate	GP1654/GN3615	0.10	0.0	mg/l	5	4.97	99.4	90-110%
Solids, Total Dissolved	GN3610	10	0.0	mg/l				
Specific Conductivity	GN3608	1.0	0.0	umhos/cm				
Sulfate	GP1649/GN3604	0.50	0.0	mg/l	5	4.72	94.4	90-110%
Sulfate	GP1654/GN3615	0.50	0.0	mg/l	5	4.89	97.8	90-110%
Turbidity	GN3596	0.50	0.045	NTU	10	10.9	102.2	75-125%

Associated Samples:
Batch GN3596: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3608: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3610: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1649: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1654: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-9
Batch GP1656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN3656	mg/l	250	251	0.0	
Bromide	GP1649/GN3604	mg/l	5	4.94	0.2	25%
Chloride	GP1649/GN3604	mg/l	5	4.78	1.9	25%
Chloride	GP1654/GN3615	mg/l	5	5.11	10.9	25%
Dissolved Organic Carbon	GP1656/GN3621	mg/l	25	24.7	1.6	
Fluoride	GP1649/GN3604	mg/l	5	4.63	4.6	25%
Fluoride	GP1654/GN3615	mg/l	5	5.04	0.2	25%
Nitrogen, Nitrate	GP1649/GN3604	mg/l	5	4.77	0.2	25%
Nitrogen, Nitrate	GP1654/GN3615	mg/l	5	4.94	0.6	25%
Sulfate	GP1649/GN3604	mg/l	5	4.71	0.2	25%
Sulfate	GP1654/GN3615	mg/l	5	4.84	1.0	25%
Turbidity	GN3596	NTU	40	40.9	0.0	

Associated Samples:
Batch GN3596: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1649: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1654: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-9
Batch GP1656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN3610	C10601-8	mg/l	199	195	2.0	0-%
Specific Conductivity	GN3608	C10601-1	umhos/cm	341	340	0.3	0-25%
Turbidity	GN3596	C10601-9	NTU	13.8	13.9	0.7	0-25%
pH	GN3593	C10600-2	su	7.37	7.30	1.0	0-25%

Associated Samples:
Batch GN3593: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3596: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3608: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GN3610: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP1649/GN3604	C10601-9	mg/l	4.6	4	8.9	107.5	80-120%
Chloride	GP1649/GN3604	C10601-9	mg/l	0.0	4	0.0	0.0N(a)	80-120%
Chloride	GP1654/GN3615	C10601-4	mg/l	35.3	20	59.6	121.5N(b)	80-120%
Dissolved Organic Carbon	GP1656/GN3621	C10601-9	mg/l	25.7	25	46.7	84.2	75-125%
Fluoride	GP1649/GN3604	C10601-9	mg/l	0.045	4	0.0	-1.1N(a)	80-120%
Fluoride	GP1654/GN3615	C10601-4	mg/l	0.19	20	18.2	90.1	80-120%
Nitrogen, Nitrate	GP1649/GN3604	C10601-9	mg/l	1.8	4	5.9	102.5	80-120%
Nitrogen, Nitrate	GP1654/GN3615	C10601-4	mg/l	0.52	20	20.5	99.9	80-120%
Sulfate	GP1649/GN3604	C10601-9	mg/l	0.0	4	0.0	0.0N(c)	80-120%
Sulfate	GP1654/GN3615	C10601-4	mg/l	68.3	20	81.1	64.0N(b)	80-120%

Associated Samples:
Batch GP1649: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1654: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-9
Batch GP1656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery shows interference from high chloride concentration.
(b) Spike recovery indicates possible matrix interference.
(c) Spike recovery shows interference from high sulfate concentration.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C10601
Account: SGRPCAPH - The Source Group
Project: Mt. Diablo- Marsh Creek Road

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP1649/GN3604	C10601-9	mg/l	4.6	4	8.8	1.1	
Chloride	GP1649/GN3604	C10601-9	mg/l	0.0	4	0.0	0.0N(a)	
Chloride	GP1654/GN3615	C10601-4	mg/l	35.3	20	59.5	0.2N(b)	
Dissolved Organic Carbon	GP1656/GN3621	C10601-9	mg/l	25.7	25	48.7	4.2	
Fluoride	GP1649/GN3604	C10601-9	mg/l	0.045	4	0.0	0.0N(a)	
Fluoride	GP1654/GN3615	C10601-4	mg/l	0.19	20	18.3	0.5	
Nitrogen, Nitrate	GP1649/GN3604	C10601-9	mg/l	1.8	4	5.9	0.0	
Nitrogen, Nitrate	GP1654/GN3615	C10601-4	mg/l	0.52	20	20.5	0.0	
Sulfate	GP1649/GN3604	C10601-9	mg/l	0.0	4	0.0	0.0N(c)	
Sulfate	GP1654/GN3615	C10601-4	mg/l	68.3	20	80.7	0.5N(b)	

Associated Samples:
Batch GP1649: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
Batch GP1654: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-9
Batch GP1656: C10601-1, C10601-10, C10601-2, C10601-3, C10601-4, C10601-5, C10601-6, C10601-7, C10601-8, C10601-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery shows interference from high chloride concentration.
(b) Spike recovery indicates possible matrix interference.
(c) Spike recovery shows interference from high sulfate concentration.

Northern California
ACCUTEST.
Laboratories

04/29/10

Technical Report for

The Source Group

Mt. Diablo- Marsh Creek Road

01-SUN-050

Accutest Job Number: C10601X

Sampling Date: 04/12/10

Report to:

The Source Group
3451C Vincent Road
Pleasant Hill, CA 94523
jphilipp@thesourcegroup.net

ATTN: Jon Philipp

Total number of pages in report:

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Anne Kathain 408-588-0200

Certifications: CA (08258CA)

Test results relate only to samples analyzed.

Accutest Laboratories

Sample Summary

The Source Group

Job No: C10601X

Mt. Diablo- Marsh Creek Road
Project No: 01-SUN-050

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C10601-1X	04/12/10	13:55	NCJP	04/13/10	AQ	Surface Water	MTD-SW-01
C10601-2X	04/12/10	14:25	NCJP	04/13/10	AQ	Surface Water	MTD-SW-02
C10601-3X	04/12/10	14:15	NCJP	04/13/10	AQ	Surface Water	MTD-SW-03
C10601-4X	04/12/10	14:35	NCJP	04/13/10	AQ	Surface Water	MTD-SW-04
C10601-5X	04/12/10	15:10	NCJP	04/13/10	AQ	Surface Water	MTD-SW-05
C10601-6X	04/12/10	13:35	NCJP	04/13/10	AQ	Surface Water	MTD-SW-06
C10601-7X	04/12/10	15:30	NCJP	04/13/10	AQ	Surface Water	MTD-SW-07
C10601-8X	04/12/10	14:45	NCJP	04/13/10	AQ	Surface Water	MTD-SW-08
C10601-9X	04/12/10	15:00	NCJP	04/13/10	AQ	Surface Water	MTD-SW-09
C10601-10X	04/12/10	15:20	NCJP	04/13/10	AQ	Surface Water	MTD-SW-10

CHAIN OF CUSTODY

ACCUTEST Laboratories
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

SGRPCAPH2674

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: G10601

Client / Reporting Information

Company Name: The Source Group
Address: 3451G Vincent Road
City: Pleasant Hill | State: California | Zip: 94523
Project Contact: Jon Philipp | E-mail: jphilipp@thesourcegroup.net
Phone #: 925-944-2856 x316
Samplers's Name: NC/JP

Project Information

Project Name: Mt. Diablo
Street: Marsh Creek Road
City: Clayton | State: CA
Project #: 01-SUN-050
Fax #: 925-944-2859
Client Purchase Order #: 01-SUN-050

Requested Analysis

8260 ☐ 624 ☐ 8021 ☐ 602 ☐ BTEX ☐ MTBE ☐ TBA ☐ NAP ☐
8260 ☐ 624 ☐ TCL ☐ PPL ☐ STARS ☐ MTBE ☐ TBA ☐ NAPL ☐ +10 ☐ +15 ☐
8270 ☐ 625 ☐ TCL ☐ PPL ☐ 6TARG ☐ ABNS ☐ AEC ☐ BNS ☐ PAHS ☐ +TICs ☐
Lab-Filter from Lit Bot NP
Mercury (dissolved/total)
Priority Pollutant Metals
Methyl Mercury
General Chem: turbidity, alkalinity, TDS, EC, pH, Bc, CAR
General Chemistry (cations/anions)
B, K, Fe, Mn, Mg, Ca, Na, Si
Hardness (Ca, Mg)
CHL, F, SO4, Br, NO3O (Anions)
Lab-Filter from Lit Bot NP

Matrix Codes

DW- Drinking Water
GW- Ground Water
WW- Water
SW- Surface Water
SO- Soil
SL-Sludge
OI-Oil
LIQ- Other Liquid
AIR- Air
SOL-Other Solid
WP-Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection: Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	HNO3	H2SO4	NaOH	None	NaHSO4	MEOH	ENCORE	Mercury (dissolved/total)	Priority Pollutant Metals	Methyl Mercury	General Chem: turbidity, alkalinity, TDS, EC, pH, Bc, CAR	General Chemistry (cations/anions)	B, K, Fe, Mn, Mg, Ca, Na, Si	Hardness (Ca, Mg)	CHL, F, SO4, Br, NO3O (Anions)	LAB USE ONLY
-1	MTD-SW-01		12-Apr	13:55	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	250mL poly
-2	MTD-SW-02		12-Apr	14:25	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	each (plain)
-3	MTD-SW-03		12-Apr	14:15	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	PHZZ (x10)
-4	MTD-SW-04		12-Apr	14:35	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	1x1L poly
-5	MTD-SW-05		12-Apr	15:10	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	each NP (x10)
-6	MTD-SW-06		12-Apr	13:35	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	(3)
-7	MTD-SW-07		12-Apr	15:30	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	500mL Amber
-8	MTD-SW-08		12-Apr	14:45	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	glass (plain) (x10)
-9	MTD-SW-09		12-Apr	15:00	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	1630 - Gabled
-10	MTD-SW-10		12-Apr	15:20	NC/JP	sw	3	1		1						X	X	X	X	X	X	X	X	to Caltest

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Approved By/ Date:

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [X] ~~Commercial "A"~~
- [X] Commercial "B"
- [ ] NJ Reduced
- [ ] NJ Full
- [ ] Other
- [ ] FULL CLP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results Only

Comments / Remarks

Samples not filtered

Cooler #1 : 4.5 + 0.3 = 4.8°C

Cooler #2 : 3.1 + 0.3 = 3.4°C

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		9:00 4/13/10	1	2	9:57 4/13/10	2
2	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.
5			5			2-coolers Recv'd

Accutest Laboratories Northern California
Sample Receiving Check List

Job#: C10601
Sample Control Rep. Initial: EK

SGRPCAPH2674

Review Chain of Custody Chain of Custody is to be complete and legible.

- ☑ Are these regulatory (NPDES) samples? ~~GWA~~ Yes / No
- ☑ Is pH requested? Yes / No
  - ☑ Was Client informed that hold time is 15 min? Yes / No Continue Yes / No
- N/A ☒ Was ortho-Phosphate filtered with in 15 min? Yes / No Continue Yes / No
- ☑ Are sample within hold time? Yes / No
  - Are sample in danger of exceeding hold-time Yes / No
- ☑ Existing Client? Yes / No new client Existing Project? New Project Yes / No
  - If No: Is Report to info complete and legible, including; Setup By the PM
    - ☑ deliverable ☑ Name ☑ Address ☐ phone ☐ e-mail
    - Is Bill to info complete and legible, including;
    - ☒ PO# ☐ Credit card ☐ Contact ☐address ☐ phone ☐ e-mail
    - Is Contact and/or Project Manager identified, including;
    - ☑ phone ☑ e-mail
- ☑ Project name / number ☐ Special requirements? Yes / No
- ☑ Sample IDs / date & time of collection provided? Yes / No
- ☑ Is Matrix listed and correct? Yes / No
- ☑ Analyses listed we do or client has authorized a subcontract? Yes / No
- ☑ Chain is signed and dated by both client and sample custodian? Yes / No
- ☑ TAT requested available? Yes / No Approved by PM

Review Coolers: 2 Coolers Recv'd.

- ☑ Were Coolers temperatures measured at ≤6°C? Cooler # — Temp — °C
  - If cooler is outside the ≤6°C; note down below the affected bottles in that cooler
  - Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)
- ☑ Shipment Received Method AC (VV)
- ☑ Custody Seals: Present: Yes / No If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- ☑ Chain matches bottle labels? Yes / No ☑ Sample bottle intact? Yes / No
- ☑ Is there enough sample volume in proper bottle for requested analyses? Yes / No
- ☑ Proper Preservatives? Yes / No Check pH on preserved samples except 1664, 625, 8270 and VOAs.
- ☒ Headspace-VOAs? Greater than 6mm in diameter Yes / No
  N/A List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues
-1	pH<2 ✓	250mL poly (w/HNO3) metals
↓	↓	↓
-10	↓	↓
		* metals/mercury
		->subbed to calest.

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

Subcontract Data

Thursday, April 29, 2010

Ann Kathain
Accutest Laboratories
2105 Lundy Avenue
San Jose, CA 95131

RE: Lab Order: K040531
Project ID: MT. DIABLO

Collected By: CLIENT
PO/Contract #: C10601

Dear Ann Kathain:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, April 13, 2010. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Enclosures

Project Manager: Mike Hamilton

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

SAMPLE SUMMARY

Lab Order: K040531

Project ID: MT. DIABLO

Lab ID	Sample ID	Matrix	Date Collected	Date Received
K040531001	C10601-1 MTD-SW-01	Water	4/12/2010 13:55	4/13/2010 14:51
K040531002	C10601-2 MTD-SW-02	Water	4/12/2010 14:25	4/13/2010 14:51
K040531003	C10601-3 MTD-SW-03	Water	4/12/2010 14:15	4/13/2010 14:51
K040531004	C10601-4 MTD-SW-04	Water	4/12/2010 14:35	4/13/2010 14:51
K040531005	C10601-5 MTD-SW-05	Water	4/12/2010 15:10	4/13/2010 14:51
K040531006	C10601-6 MTD-SW-06	Water	4/12/2010 13:35	4/13/2010 14:51
K040531007	C10601-7 MTD-SW-07	Water	4/12/2010 15:30	4/13/2010 14:51
K040531008	C10601-8 MTD-SW-08	Water	4/12/2010 14:45	4/13/2010 14:51
K040531009	C10601-9 MTD-SW-09	Water	4/12/2010 15:00	4/13/2010 14:51
K040531010	C10601-10 MTD-SW-10	Water	4/12/2010 15:20	4/13/2010 14:51

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

NARRATIVE

Lab Order: K040531

Project ID: MT. DIABLO

General Qualifiers and Notes

Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that all test results for wastewater and hazardous waste analyses meet all applicable NELAC requirements; all microbiology and drinking water testing meet applicable ELAP requirements, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods (SM) 18th Ed. except where noted.

Caltest collects samples in compliance with 40 CFR, EPA Methods, Cal. Title 22, and Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Laboratory filtration for dissolved metals (excluding mercury) and/or pH analysis was not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - Non Detect - indicates analytical result has not been detected.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

E - indicates an estimated analytical result value.

B - indicates the analyte has been detected in the blank associated with the sample.

NC - means not able to be calculated for RPD or Spike Recoveries.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

ANALYTICAL RESULTS

Lab Order: K040531
Project ID: MT. DIABLO

Lab ID: K040531001 Date Collected: 4/12/2010 13:55 Matrix: Water
Sample ID: C10601-1 MTD-SW-01 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.0607	ng/L	0.05	0.02	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531002 Date Collected: 4/12/2010 14:25 Matrix: Water
Sample ID: C10601-2 MTD-SW-02 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.976	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531003 Date Collected: 4/12/2010 14:15 Matrix: Water
Sample ID: C10601-3 MTD-SW-03 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.398	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531004 Date Collected: 4/12/2010 14:35 Matrix: Water
Sample ID: C10601-4 MTD-SW-04 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.328	ng/L	0.05	0.02	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531005 Date Collected: 4/12/2010 15:10 Matrix: Water
Sample ID: C10601-5 MTD-SW-05 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

ANALYTICAL RESULTS

Lab Order: K040531
Project ID: MT. DIABLO

Lab ID: K040531005 **Date Collected:** 4/12/2010 15:10 **Matrix:** Water
Sample ID: C10601-5 MTD-SW-05 **Date Received:** 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	1.04	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531006 **Date Collected:** 4/12/2010 13:35 **Matrix:** Water
Sample ID: C10601-6 MTD-SW-06 **Date Received:** 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.350	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531007 **Date Collected:** 4/12/2010 15:30 **Matrix:** Water
Sample ID: C10601-7 MTD-SW-07 **Date Received:** 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.736	ng/L	0.05	0.02	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531008 **Date Collected:** 4/12/2010 14:45 **Matrix:** Water
Sample ID: C10601-8 MTD-SW-08 **Date Received:** 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.389	ng/L	0.05	0.02	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531009 **Date Collected:** 4/12/2010 15:00 **Matrix:** Water
Sample ID: C10601-9 MTD-SW-09 **Date Received:** 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

ANALYTICAL RESULTS

Lab Order: K040531
Project ID: MT. DIABLO

Lab ID: K040531009 Date Collected: 4/12/2010 15:00 Matrix: Water
Sample ID: C10601-9 MTD-SW-09 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury	0.523	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

Lab ID: K040531010 Date Collected: 4/12/2010 15:20 Matrix: Water
Sample ID: C10601-10 MTD-SW-10 Date Received: 4/13/2010 14:51

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Methyl Mercury Analysis		**Prep Method:**	Draft EPA 1630			**Prep by:** ECV				
		Analytical Method:	Draft EPA 1630					**Analyzed by:** ECV		
Methyl Mercury	0.480	ng/L	0.2	0.1	1	04/21/10 00:00	MPR 8689	04/23/10 00:00	MHG 3113	

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

QUALITY CONTROL DATA

Lab Order: K040531

Project ID: MT. DIABLO

Analysis Description:	Methyl Mercury Analysis	**QC Batch:**	MPR/8689
Analysis Method:	Draft EPA 1630	**QC Batch Method:**	Draft EPA 1630

METHOD BLANK: 327433

Parameter	Blank Result	Reporting Limit	MDL	Units	Qualifiers
Methyl Mercury	ND	0.05	0.02	ng/L	

LABORATORY CONTROL SAMPLE: 327434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl Mercury	ng/L	1.11	0.966	87	67-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 327435 327436

Parameter	Units	K040637001 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Methyl Mercury	ng/L	0.0233	1.11	1.02	1.02	90	90	65-135	0	35	

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

QUALITY CONTROL DATA QUALIFIERS

Lab Order: K040531

Project ID: MT. DIABLO

QUALITY CONTROL PARAMETER QUALIFIERS

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions.

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

NC - means not able to be calculated for RPD or Spike Recoveries.

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: K040531

Project ID: MT. DIABLO

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
K040531001	C10601-1 MTD-SW-01	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531002	C10601-2 MTD-SW-02	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531003	C10601-3 MTD-SW-03	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531004	C10601-4 MTD-SW-04	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531005	C10601-5 MTD-SW-05	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531006	C10601-6 MTD-SW-06	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531007	C10601-7 MTD-SW-07	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531008	C10601-8 MTD-SW-08	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531009	C10601-9 MTD-SW-09	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113
K040531010	C10601-10 MTD-SW-10	Draft EPA 1630	MPR/8689	Draft EPA 1630	MHG/3113

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

K040531

Northern California ACCUTEST Laboratories

Accutest ID and PO#: C10601

2105 Lundy Avenue, San Jose, CA 95131 Phone :(408)588-0200 Fax: (408)588-0201

Subcontract Chain of Custody

Subcontract Lab: Caltest Analytical Laboratory
Date Sent: 04/13/10
Date Due: 10 Day TAT 10 Day TAT

Project Name: Mt. Diablo
Project Location: Clayton, CA

Accutest Lab Number	Customer Sample Name/Field Point ID	Matrix	Method	Collect Date	Collect Time
C10601-1	MTD-SW-01	SW	Methyl Mercury	04/12/10	13:55
C10601-2	MTD-SW-02	SW	Methyl Mercury	04/12/10	14:25
C10601-3	MTD-SW-03	SW	Methyl Mercury	04/12/10	14:15
C10601-4	MTD-SW-04	SW	Methyl Mercury	04/12/10	14:35
C10601-5	MTD-SW-05	SW	Methyl Mercury	04/12/10	15:10
C10601-6	MTD-SW-06	SW	Methyl Mercury	04/12/10	13:35
C10601-7	MTD-SW-07	SW	Methyl Mercury	04/12/10	15:30
C10601-8	MTD-SW-08	SW	Methyl Mercury	04/12/10	14:45
C10601-9	MTD-SW-09	SW	Methyl Mercury	04/12/10	15:00
C10601-10	MTD-SW-10	SW	Methyl Mercury	04/12/10	15:20

Comments:

Relinquished By:	Received By:	Date:	Time:
ekumar		4/13/10	1220
Relinquished By:	Received By:	Date:	Time:
		4/13/10	1457
Relinquished By:	Received By:	Date:	Time:

Send the Report to: dianet@accutest.com

Technical Report for

The Source Group

Mt. Diablo- Marsh Creek Road, Clayton, CA

SUNOCO

Accutest Job Number: C11216

Sampling Date: 05/27/10

Report to:

The Source Group
3451C Vincent Road
Pleasant Hill, CA 94523
jphilipp@thesourcegroup.net

ATTN: Jon Philipp

Total number of pages in report: 50

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy
Laboratory Director

Client Service contact: Anne Kathain 408-588-0200

Certifications: CA (08258CA) DoD/ISO/IEC 17025:2005 (L2242)

Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Sections: 1 2 3 4 5

Table of Contents

-1-

Sample Summary

The Source Group

Job No: C11216

Mt. Diablo- Marsh Creek Road, Clayton, CA
Project No: SUNOCO

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C11216-1	05/27/10	13:00	JP	05/28/10	AQ	Surface Water	MTD-SW-08/2
C11216-1F	05/27/10	13:00	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-08/2
C11216-2	05/27/10	13:30	JP	05/28/10	AQ	Surface Water	MTD-SW-07/2
C11216-2F	05/27/10	13:30	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-07/2
C11216-3	05/27/10	13:15	JP	05/28/10	AQ	Surface Water	MTD-SW-09/2
C11216-3F	05/27/10	13:15	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-09/2
C11216-4	05/27/10	13:50	JP	05/28/10	AQ	Surface Water	MTD-SW-10/2
C11216-4F	05/27/10	13:50	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-10/2
C11216-5	05/27/10	10:50	JP	05/28/10	AQ	Surface Water	MTD-SW-06/2
C11216-5F	05/27/10	10:50	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-06/2
C11216-6	05/27/10	09:20	JP	05/28/10	AQ	Surface Water	MTD-SW-11/2
C11216-6F	05/27/10	09:20	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-11/2
C11216-7	05/27/10	12:45	JP	05/28/10	AQ	Surface Water	MTD-SW-16/2

Sample Summary
(continued)

The Source Group

Job No: C11216

Mt. Diablo- Marsh Creek Road, Clayton, CA
Project No: SUNOCO

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
C11216-7F	05/27/10	12:45	JP	05/28/10	AQ	Surface H2O Filtered	MTD-SW-16/2

Sample Results

Report of Analysis