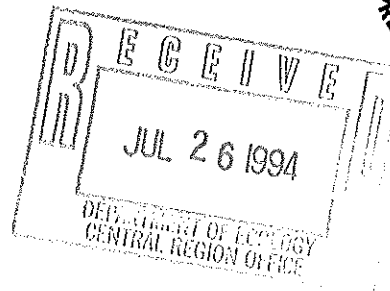


CENTRAL OFFICE — 575-4040 — 104 North First Street — Yakima, Wash. 98901
SUNNYSIDE OFFICE — 837-3411 — 1319 Saul Road — P.O. Box 821 — Sunnyside, Wash. 98944



July 25, 1994

Frank Paganelli
261 Douglas Lane
Wapato, WA 98951



RE: 1802 South 1st Street, Yakima.

Mr. Paganelli,

The Yakima Health District has completed the site hazard assessment (SHA) of the **Carlos Motors site**, as required under the Model Toxics Control Act. This site's hazard ranking, an estimation of the potential threat to human health and/or the environment relative to all other Washington State sites assessed at this time, has been determined to be "1", where 1 represents the highest relative risk and 5 the lowest.

For your information, Ecology will be publishing the ranking of this and other recently assessed sites in the August 23, 1994 Special Issue of the Site Register. The site hazard ranking will be used in conjunction with other site-specific considerations in determining Ecology's priority for future actions.

Please contact me at (509) 575-4265 if you have any questions relating to the SHA of your site. If you have any inquiries/comments about the site scoring/ranking process, please call Michael Spencer at (206) 407-7195. For inquiries regarding any further activities at your site now that it is on Ecology's Hazardous Sites List, please call Jim Chulos at (509)454-7294.

Sincerely,

Ted Silvestri, R.S.
Environmental Health Specialist

cc: Michael Spencer, Washington Department of Ecology
Jim Chulos, Washington Department of Ecology, Central Regional Office
Brad Tidrick, 1802 South 1st Street, Yakima

SUPPORTING GOVERNMENTAL UNITS

Yakima County	Harrah	Salah	Union Gap
Yakima City	Mabton	Sunnyside	Wapato
Grandview	Moxee	Tieton	Zillah
Granger	Naches	Toppenish	



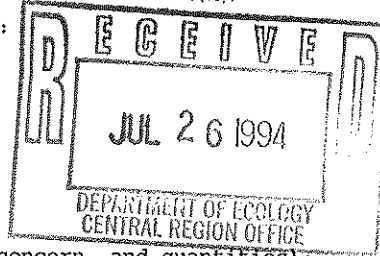
CENTRAL OFFICE — 575-4040 — 104 North First Street — Yakima, Wash. 98901
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WORKSHEET 1
SUMMARY SCORE SHEET

Note: This document currently has no provision for sediment route scoring.

Site Name/Location (City, County, Section/Township/Range):

Carlos Motors
1802 South 1st Street
Yakima, WA 98901



Parcel number: 191331-11012

Site Description (Include management areas, compounds of concern, and quantities):

This site is at the intersection of South 1st Street and Mead Avenue in Yakima, Washington. It is in a commercial and light industrial area which is near the railroad corridor through town. It has been a car dealership and/or an auto repair, maintenance, and body shop (with painting) for over 30 years under several operators. There has been documented incidents of the dumping of pollutants (petroleum products) into the drains on the lot. The site is currently an auto repair facility, specializing in transmission work (TQT Transmission). The current operator has been at this site since approximately the beginning of 1994 and is not the same operator as when the initial investigation was completed by the Washington State Department of Ecology.

During an initial site visit staining was observed on the ground around the fill spout for the waste oil tank located on the west side of the lot. There are also two dry wells on the lot that were connected to the floor drains inside the building. The dry wells do drain to ground water, which is shallow under the City of Yakima.

The staining around the waste oil tank was tested for total petroleum hydrocarbons, priority metals, VOAs, and PCBs. Chromium, copper, and lead, as well as all ranges of petroleum hydrocarbons (gasoline, diesel, and heavy oils) were found. Various organic compounds were also found including 2-methylnaphthalene, phenanthrene, pyrene, and bis(2-ethylhexyl)phthalate.

The south pavement drain was tested for total petroleum hydrocarbons, VOA, semivolatiles, and priority metals. Cadmium, chromium, copper, and lead as well as all ranges of petroleum hydrocarbons were found in this dry well. Various organic compounds were found including acetone, methylene chloride, toluene, ethylbenzene, m,p-xylenes, o-xylenes, 4-methylphenol, 2-methylnaphthalene, phenanthrene, fluoranthene, pyrene, and bis(2-ethylhexyl)phthalate.

Special Considerations (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

The underground waste oil tank is full of liquid which was releasing vapors that a photoionization meter detected and is not currently in use or equipped with a proper lid (it has a coffee can over the fill pipe).

ROUTE SCORES:

Surface Water/Human Health: N/A; Surface Water/Environ.: N/A;

Air/Human Health: 49.2; Air/Environmental: 14.0;

Ground Water/Human Health: 68.0.

OVERALL RANK: 1.

Rev. 4/3/92

SUPPORTING GOVERNMENTAL UNITS

1	Yakima County	Harrah	Selah	Union Gap
	Yakima City	Mabton	Sunnyside	Wapato
	Grandview	Moxee	Tieton	Zillah
	Granger	Naches	Toppenish	

WORKSHEET 2
ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE Not applicable/not scored

2. AIR ROUTE

List substances to be considered for scoring:

1. *methylene chloride*
2. *toluene*
3. *ethylbenzene*
4. *xylenes*
5. *WTPH-diesel*

Source: 1

Explain basis for choice of substance(s) to be used in scoring.

These substances were found in the area of the surface staining around the waste oil tank.

List management units to be considered in scoring:

Spill

Source: 1

Explain basis for choice of unit used in scoring.

Contaminants were found on the surface of the ground with no containment.

3. GROUND WATER ROUTE

List substances to be considered for scoring:

1. *antimony*
2. *arsenic*
3. *cadmium*
4. *chromium*
5. *copper*
6. *lead*
7. *mercury*
8. *nickel*
9. *selenium*
10. *zinc*
11. *methylene chloride*
12. *toluene*
13. *ethylbenzene*
14. *xylenes*
15. *WTPH-diesel*
16. *phenanthrene*
17. *pyrene*

Source: 1

Explain basis for choice of substance(s) to be used in scoring.

All of these contaminants exceeded either the MTCA method A clean up levels or the maximum contaminate levels for drinking water.

List management units to be considered in scoring:

Spill

Source: 1

Explain basis for choice of unit used in scoring.

Contaminants were found in a dry well and on the ground surface with no containment.

**WORKSHEET 4
SURFACE WATER ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

Not applicable/not scored

**WORKSHEET 5
AIR ROUTE**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction (WARM Scoring Manual) - Please review before scoring

1.2 Human Toxicity

Substance	Air Standard		Acute Toxicity		Chronic Toxicity		Carcinogenicity		
	(ug/m ³)	Val.	(mg/m ³)	Val.	(mg/kg/day)	Val.	WOE	PF*	Val.
1. methylene chloride	2	9	88000 (LC50/30M, rat)	10	.86	1	B2=.8	.014	5
2. toluene	1248.8	1	-	-	.57	1	X	-	-
3. ethylbenzene	1448.6	1	-	-	-	-	X	-	-
4. xylenes	1448.6	1	21714 (LC50/4H, rat)	10	.085	1	X	-	-
5. WTPH-diesel	166.5	4	-	-	-	-	X	-	-

Source: 1,2,3

*Potency Factor

Highest Value: 10

+2 Bonus Points? 2

Final Toxicity Value: 12

1.3 Mobility (Use numbers to refer to above listed substances)

1.3.1 Gaseous Mobility

Vapor Pressure(s): 1,2 Source: 1,2
Value: 4

1.3.2 Particulate Mobility

Soil type: _____ Source: _____
Erodibility: _____ Value: _____
Climatic Factor: _____

1.4 Highest Human Health Toxicity/Mobility Matrix Value (from Table A-7) equals

Final Matrix Value: 24

1.5 Environmental Toxicity/Mobility

Substance	Non-human Mammalian Acute		(Table A-7)	
	Inhal. Toxicity (mg/m ³)	Value	Mobility Value	Matrix Value
1. methylene chloride	88000 (LC50/30M, rat)	3	4	6
2. toluene	-	-	-	-
3. ethylbenzene	-	-	-	-
4. xylenes	21714 (LC50/4H, rat)	3	3	5
5. WTPH-diesel	-	-	-	-

Highest Environmental Toxicity/Mobility Matrix Value (From Table A-7) equals Final Matrix Value: 6

1.6 Substance Quantity: ~314 sq.ft. of surface staining Source: 1,3 Value: 2

Explain basis: Based on area of visible staining.

2.0 MIGRATION POTENTIAL

2.1 Containment: No cover, surface spill, no vapor recovery Source: 1,3 Value: 10

3.0 TARGETS

3.1 Nearest Population: 40 feet Source: 1,3 Value: 10

3.2 Distance to, and Name(s) of, Nearest Sensitive Environment(s) .75 mile, Cahalan Park Source: 1,3 Value: 3

3.3 Population within 0.5 miles: $(1529) \div 2 = 39$ Source: 8 Value: 39

4.0 RELEASE

Explain basis for scoring a release to air: Source: 1,3 Value: 0

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard		Acute Toxicity		Chronic Toxicity		Carcinogenicity		Val.
	(ug/l)	Val.	(mg/kg-bw)	Val.	(mg/kg/day)	Val.	WOE	PF*	
1. antimony	3	8	7 (LD50, rat)	-	.0004	8		X	-
2. arsenic	50	-	763 (LD50, rat)	-	.001	5	A=1	1.75	7
3. cadmium	5	8	225 (LD50, rat)	-	.0005	8		X	-
4. chromium	100	-	-	-	.005?	5		X	-
5. copper	1300	-	-	-	.037	8		X	-
6. lead	5	8	-	-	-	-		X	-
7. mercury	2	-	-	-	.0003	8		X	-
8. nickel	100	-	-	-	.02	2		X	-
9. selenium	50	-	6700 (LD50, rat)	-	.003	5		X	-
10. zinc	4000	-	-	-	.2	1		X	-
11. methylene chloride	5	8	1600 (LD50, rat)	-	.06	1	B2=.8	.0075	3
12. toluene	2000	2	5000 (LD50, rat)	3	.2	1		X	-
13. ethylbenzene	700	4	3500 (LD50, rat)	3	.1	1		X	-
14. xylenes	10000	-	50 (LDLo, hmn)	8	2.	1		X	-
15. WTPH-diesel	20	6	490 (LD50, rat)	5?	.004	3		X	-
16. phenanthrene	.2	10	-	-	-	-		X	-
17. pyrene	.2	10	2700 (LD50, rat)	3	.03	1		X	-

Source: 1,2,3

*Potency Factor

Highest Value: 10
+2 Bonus Points? 2
Final Toxicity Value: 12

1.2 Mobility (Use numbers to refer to above listed substances)

Cations/Anions 1, 2, 3, 7, 9, 10 Source: 1,3 Value: 3

OR

Solubility(mg/l) _____ Source: _____ Value: _____

1.3 Substance Quantity Default Source: 1 Value: 1

Explain basis: Due to the fact that the spillage occurred prior to occupancy by the current operator, no estimate of quantity is possible.

2.0 MIGRATION POTENTIAL

2.1 Containment Source: 1,3 Value: 10

Explain basis: For all spills, discharges, and contaminated soil (including dry wells, drain fields, and Leaking underground storage tanks) a default containment value of 10 is used.

2.2 Net Precipitation: 1.2 inches Source: 4 Value: 1

2.3 Subsurface Hydraulic Conductivity: >10⁻³ Source: 5 Value: 4

2.4 Vertical Depth to Ground Water: <25 feet Source: 6 Value: 8

3.0 TARGETS

- 3.1 Ground Water Usage: public supply, alternate source available
Source: 1.7 Value: 4
- 3.2 Distance to Nearest Drinking Water Well: ~1,000ft Source: 1 Value: 4
- 3.3 Population Served within 2 Miles: (2,934)⁻² = 54 Source: 8 Value: 54
- 3.4 Area Irrigated by (Groundwater) Wells
within 2 miles: .75(2906)⁻² = 40 Source: 7 Value: 40

4.0 RELEASE

Explain basis for scoring a release to ground water: Contamination is in the dry well and on the ground surface with no barriers between it and the ground water. Source: 1 Value: 5

SOURCES USED IN SCORING

1. *Yakima Health District site visit and sampling on May 11, 1994.*
2. *WDOE Toxicology Database for Use in WARM Scoring, January 1992.*
3. *WDOE Washington Ranking Method Scoring Manual.*
4. *Washington Climate for Yakima County, table 27, May 1979.*
5. *Soil Survey of Yakima County Area, Washington, USGS, May 1985*
6. *Soil log information from surrounding area, Yakima Health District Sewage Files.*
7. *WDOE Water Rights Information System.*
8. *Washington State 1990 Census Data as supplied by Region 10 EPA.*

Reference # 2,905.6 irrigated acres

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 4 PAGE 327 REPORT DATE 1/23/92

CONTROL # SEC OLD APPL OLD PERM OLD DATE OF S C A CNTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TREASURY OF

FOR R LOC. OF POD/POW (CHG CA) PURPOSE OF USE I C M USE DIVE INST C R S GA IRR C S PRO- TIME OF I R R

PIS P WATER RESOURCE INVENTORY AREA- 37 (RANGE - 19'E

TOWNSHIP - 13 RANGE - 19'E

IRRIGATION

G4-30736A 24 IRRIGATION 05/03/991 19.0 G 2 4.0 1.0 RK 04011031

1 HE4SHW4 DOMESTIC SINGLE STEKAWRICH

G4-244334C 25 IRRIGATION 02/11/977 110.0 G 3 110.0 G 3 10.0

1 NW4NW4 STOCK WATERING

1 IRRIGATION 110.0 G 3

G4-244334C 25 IRRIGATION 01/23/981 300.0 G 7 114.0 30.0 RW 04011015

1 W4SW4 IRRIGATION

G4-244334C 25 IRRIGATION 02/22/988 250.0 G 6 36.6 46.3 RK 04011031

1 NW4SE4 IRRIGATION

G4-244334C 26 IRRIGATION 03/07/977 450.0 G 2 91.6 102.8 \$RK 04011031

1 NW4NW4 FROST PROTECTION

G4-244334C 26 IRRIGATION 04/02/980 40.0 G 2 37.0 50.0 \$RK 04011031

1 NW4NE4 DOMESTIC SINGLE

G4-244334C 26 IRRIGATION 02/08/987 450.0 G 2 52.0 65.0 \$RK 04011031

1 NW4NE4 IRRIGATION

G4-244334C 27 IRRIGATION 02/27/977 2250.0 G 6 110.0 110.0 IS

1 HE4 IRRIGATION

G4-244334C 27 IRRIGATION 03/17/987 250.0 G 6 60.0 60.0 IS

1 HE4SW4 IRRIGATION

G4-013350P 27 IRRIGATION 01/10/950 40.0 G 2 16.0 16.0 IS

1 NE4NE4NW4 DOMESTIC SINGLE

G4-07417 28 IRRIGATION 02/01/964 35.0 G 2 10.0 10.0 A

1 HE4SW4 DOMESTIC MULTIPLE

G4-013350P 28 IRRIGATION 05/02/952 40.0 G 2 9.0 9.0 A

1 HE4NE4NW4 DOMESTIC MULTIPLE

G4-013350P 28 IRRIGATION 12/04/961 850.0 G 2 11.0 11.0 A

1 HE4NE4NW4 DOMESTIC SINGLE

G4-013350P 28 IRRIGATION 02/20/962 850.0 G 2 200.0 200.0 A

1 HE4NE4NW4 DOMESTIC SINGLE

G4-20005A 28 IRRIGATION 01/23/978 173.0 G 2 74.0 74.0 IS

1 HE4SW4 DOMESTIC MULTIPLE

G4-20005A 28 IRRIGATION 07/28/982 173.0 G 2 74.0 74.0 IS

1 HE4SW4 DOMESTIC MULTIPLE

G4-20005A 28 IRRIGATION 04/25/984 100.0 G 2 36.0 36.0 IS

1 SE4NE4 IRRIGATION

G4-30219A 28 IRRIGATION 04/05/990 300.0 G 3 300.0 G 3 9.0 9.0 RK 04011031

1 HE4SW4 DOMESTIC MULTIPLE

G4-107726C 28 IRRIGATION 11/10/964 300.0 G 3 300.0 G 3 1.0 1.0 IS

1 HE4SW4 FISH PROPAGATION

G4-04610 29 IRRIGATION 05/17/957 240.0 G 2 80.0 80.0 IS

1 NW4NW4 IRRIGATION

G4-07529 29 IRRIGATION 03/15/965 240.0 G 2 20.0 20.0 RK 04301031

1 NW4SE4 IRRIGATION

G4-07529 29 IRRIGATION 05/11/965 172.0 G 2 20.0 20.0 IS

1 NW4SE4 IRRIGATION

G4-07529 29 IRRIGATION 04/14/965 172.0 G 2 20.0 20.0 IS

1 NW4SE4 IRRIGATION

G4-07529 29 IRRIGATION 07/119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

G4-07529 29 IRRIGATION 07119 50.0 G 2 7.2 7.2 IS

1 NW4NE4 IRRIGATION

CONTROL # SEC OLD APP OLD PERM OLD CRT DATE OF S C A CNTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
 PTS P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE TYPE INST M U U QA H U U IRR C S PRO- TIME OF I R R
 WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 13 RANGE - 19 E

G4-11478A 29 11478 DOMESTIC MULTIPLE 12/23/970 R YAKI / / MATSON ALAN L WELL
 1 GOODWIN'S 5 ACRE TRKS L-34 COMMERCIAL/INDUSTRIAL C 1000.0 G 2

G4-234459C 29 SW4SE4NW4 ENVIRONMENTAL QUALITY 09/10/974 YAKI 05/05/976 YAKIMA PKS & REGR 83.0 16.0 R 04011001
 1 SW4SE4NW4 IRRIGATION C 400.0 G 2 YAKIMA VALLEY TURF 210.0
 2 IRRIGATION C 400.0 G 2

G4-203549C 29 SEGNE4 DOMESTIC MULTIPLE 11/30/983 S YAKI 03/30/987 HUMANE SOCIETY 2.0
 1 SEGNE4 COMMERCIAL/INDUSTRIAL C 18.0 G 3
 C 18.0 G 3
 C 1.2
 C 1.8

G4-2925A 29 SEGNE4 IRRIGATION 10/18/988 YAKI / / YAKIMA GREENWAY WELL 12.2
 1 SEGNE4 IRRIGATION C 300.0 G

G4-30734A 29 HW4NE4 DOMESTIC MULTIPLE 05/03/991 YAKI / / YAKIMA ARBORETUM WELL
 1 HW4NE4 COMMERCIAL/INDUSTRIAL C 75.0 G

G4-00115D 30 00115 COMMERCIAL/INDUSTRIAL 08/01/923 R YAKI / / CITY ICE DELIVERY WELL
 1 NW4NW4 COMMERCIAL/INDUSTRIAL C 60.0 G 96.0
 1 HW4NW4 HEAT EXCHANGE 00/01/923 C YAKI / / CITY ICE DELIVERY WELL 56.0

G4-04381 30 04381 IRRIGATION 07/19/956 YAKI 10/09/956 YAKIMA METRO PRK D 10.0 2.5 AEN IS
 1 HW4NW4 IRRIGATION C 82.0 G

G4-24200C 30 V2 NW4 NE4 COMMERCIAL/INDUSTRIAL 02/17/976 R YAKI 12/27/976 NOEL CANNING CORP 57.0
 1 V2 NW4 NE4 COMMERCIAL/INDUSTRIAL C 150.0 G

G4-26585C 30 SEGNE4 HEAT EXCHANGE 12/14/984 YAKI 11/21/985 YAKIMA PRECAST WELL
 1 SEGNE4 HEAT EXCHANGE C 90.0 G

G4-06783C 31 HW4NE4 COMMERCIAL/INDUSTRIAL 04/28/971 YAKI 06/07/973 SNOOKIST GROWERS 64.0
 1 HW4NE4 COMMERCIAL/INDUSTRIAL C 40.0 G

G4-01813 31 01813 COMMERCIAL/INDUSTRIAL 02/05/951 YAKI 04/13/951 YAKIMA FARMERS SFP 40.0
 1 NE4SE4 COMMERCIAL/INDUSTRIAL C 50.0 G

G4-04835 31 04835 DOMESTIC MULTIPLE 04/18/958 YAKI 08/15/958 HANSEN FRUIT / STO 280.0
 1 HW4 NE4 HEAT EXCHANGE C 175.0 G 3
 COMMERCIAL/INDUSTRIAL C 175.0 G 3
 COMMERCIAL/INDUSTRIAL C 280.0
 COMMERCIAL/INDUSTRIAL C 280.0
 COMMERCIAL/INDUSTRIAL C 280.0
 COMMERCIAL/INDUSTRIAL C 280.0

G4-06401 31 06401 COMMERCIAL/INDUSTRIAL 07/31/962 YAKI 10/29/962 HANSEN EBUTT & STO 280.0
 1 HEGHW4NE4 COMMERCIAL/INDUSTRIAL C 285.0 G

G4-07270 31 07270 COMMERCIAL/INDUSTRIAL 07/22/964 YAKI 03/22/965 HANSEN FRUIT & STO 503.0
 1 NE4 NW4 NE4 COMMERCIAL/INDUSTRIAL C 350.0 G

G4-23466C 31 HW4HE4SW4 DOMESTIC SINGLE 06/27/974 YAKI 02/24/976 RHODES JOHN W 2.0
 2 HW4HE4SW4 IRRIGATION C 20.0 G 2
 IRRIGATION C 6.0

G4-24087C 31 HW4NE4 IRRIGATION 03/02/977 YAKI 03/06/978 STELZER ALFRED 52.0
 1 HW4NE4 IRRIGATION C 90.0 G

G4-20957B 31 S21W4 IRRIGATION 05/09/986 YAKI 01/12/987 WHITE DONALD R 48.0
 1 S21W4 IRRIGATION C 235.0 G

G4-29160C 31 S21W4 IRRIGATION 12/09/986 YAKI 05/21/987 WHITE DONALD R 48.0
 1 S21W4 IRRIGATION C 95.0 G

G4-21197C 32 SW4NE4 IRRIGATION 05/24/973 YAKI 07/11/975 WALTERS THOMAS G 12.0
 1 SW4NE4 IRRIGATION C 30.0 G

G4-00042P 32 00042 11/14/945 C YAKI 01/25/946 CRAWFORD J J WELL

CONTROL # SEC OLD OLD OLD DATE OF \$ C A CNTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
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 PTS P LOC. OF POD/POW (CHG C*) PURPOSE OF USE USE TYPE QI M U S QA M U S AC M U VISOS USE I A C

TOWNSHIP - 13 RANGE - 19 E

1 SW4SE4NE4 IRRIGATION C 900.0 G 120.0 35.0 IS

G4-207593C 32 07593 07120 05732 04/14/965 IRRIGATION C YAKI 07/26/965 WA ST HIGHWAY COMM WELL 1-8 R 15

1 SE4NE4 IRRIGATION C 50.0 G 7.2 1.8 IS

G4-207554C 32 07594 07121 05733 04/14/965 IRRIGATION C YAKI 07/26/965 WA ST HIGHWAY COMM WELL 7.2 R IS

1 SE4NE4 IRRIGATION C 50.0 G 7.2 1.8 IS

G4-207521C 32 10321 09355 07252 07/24/969 HEAT EXCHANGE C YAKI 10/20/969 LINDEMAN J G 2 50.0 G 7.2 1.8 IS

1 TR8 FORNEY SUBD HEAT EXCHANGE C 50.0 G 7.2 1.8 IS

G4-23040C 32 SE4SE4NW4 IRRIGATION C YAKI 12/12/975 YAKIMA PKS & RECR WELL 39.0 R 04011001

20514C 32 SW4NE4 COMMERCIAL/INDUSTRIAL C YAKI 01/31/985 WASH FRUIT & PROD WELL 7.5 R 04011001

G4-20811C 32 SW4NE4 COMMERCIAL/INDUSTRIAL C YAKI 03/28/986 WA FRUIT & PRODUCE WELL 7.5 R 05010731

1 SW4NE4 COMMERCIAL/INDUSTRIAL C YAKI 03/28/986 WA FRUIT & PRODUCE WELL 7.5 R 05010731

G4-20811C 32 SW4NE4 COMMERCIAL/INDUSTRIAL C YAKI 03/28/986 WA FRUIT & PRODUCE WELL 7.5 R 05010731

G4-251838 33 SE4 NE4 DOMESTIC SINGLE C YAKI 03/08/978 VANDERWEL PATTY J WELL 39.0 R 04011031

1 SE4 NE4 DOMESTIC SINGLE C 400.0 G 2 204.0

G4-25394T 33 I N2N1 DOMESTIC MULTIPLE C YAKI 08/22/987 YAKIMA CONCRETE CO. WELL 500.0 G 2 500.0 G 2 \$K

1 N2N1 DOMESTIC MULTIPLE C 500.0 G 2 500.0 G 2

G3-21053C 34 NE4SE4 IRRIGATION C YAKI 07/29/975 MILUM ROLAND D WELL 10.0 R 04011031

1 NE4SE4 IRRIGATION C 80.0 G 53.0

G4-24871G 34 SE4NE4 STOCK WATERING C YAKI 02/23/978 GOODWIN P D 2.0 30.0 G 2 24.0 WELLS 11.0 RN 04011031

1 SW4SE4 DOMESTIC SINGLE C YAKI 10/09/991 WENTZ DEWAYNE L WELL 5.0 R 04011031

1 SW4SE4 DOMESTIC SINGLE C 55.0 G 2 26.2

206768 34 SW4SE4 DOMESTIC SINGLE C YAKI 11/22/985 KRAUSE RICHARD C WELLS 60.0 G 2 1.0 22.5 5.0 R 04011031

1 SW4SE4 DOMESTIC SINGLE C 60.0 G 2 22.5

G4-206359C 35 06359 06100 04659 06/27/962 IRRIGATION C YAKI 01/08/963 YAKIMA SCH DIST #9 WELL 15.0 AN 15

1 SE4 SE4 NE4 IRRIGATION C 145.0 G 69.0

G4-209222C 35 09220 08642 06203 02/16/968 DOMESTIC MULTIPLE C YAKI 09/04/968 MOXEE SCH DIS #90 WELL 17.0 RN

1 NE4SE4NE4 DOMESTIC MULTIPLE C 150.0 G 17.0

G4-27411P 35 SE4SE4 DOMESTIC SINGLE C YAKI 03/01/983 B T LOFTUS RCHS IN WELL 2.0 10.0 G 2 5.14 6.0 R 04011031

1 SE4SE4 DOMESTIC SINGLE C 10.0 G 2 5.14

G4-24722P 36 SE4SW4 IRRIGATION C YAKI 05/04/978 VEST JIM WELL 9.0 RW 04011031

1 SE4SW4 IRRIGATION C 100.0 G 43.0

G4-25506C 36 SE4NE4 DOMESTIC SINGLE C YAKI 03/30/978 BURLEY YAKIMA RAN WELL 2.0 185.0 G 2 125.0 46.0 R 04011031

1 SE4NE4 DOMESTIC SINGLE C 185.0 G 2 125.0

G4-27920P 36 S2NE4 DOMESTIC MULTIPLE C YAKI 04/07/983 DORAIS EMIL/HELEN WELL 5.0 KR

1 S2NE4 DOMESTIC MULTIPLE C 50.0 G 5.0

G4-29752A 36 E7NE4 DOMESTIC SINGLE C YAKI 180.0 G 3 180.0 G 3 180.0 G 3 42.0 IS

1 E7NE4 DOMESTIC SINGLE C 180.0 G 3 180.0 G 3

TOWNSHIP - 13 RANGE - 20 E

CONTROL # SEC OLD APP. OLD PERM. OLD CERT. DATE OF \$ C A C NTY PERMIT NAME REGION 4 PAGE 324 SOURCE OF APPROPRIATION TRIBUTARY CF
 PITS P LOC. OF POD/POW (CHG C+) PURPOSE OF USE USE TYPE DATE INST C R S GA ANNUAL C R S IRR C S PRO- TIME OF F R R
 AC M U VISOS USE I A C

WATER RESOURCE INVENTORY AREA - 37

TOWNSHIP - 13 RANGE - 19 E

G4*07587G 18 07587 07114 05726 04/14/965 YAKI 07/24/965 WA ST HIGHWAY COMM WELL 1.8 R IS

G4*07589G 18 07589 07116 05728 04/14/965 YAKI 07/24/965 WA ST HIGHWAY COMM WELL 1.7 R IS

G4-27615C 18 L-1/4 BL-87 YAKIMA/SEASW4 HEAT EXCHANGE 08/26/981 YAKI 06/14/982 L E L BUILDING 56.5 R K

G4-30096A 18 NW4NW4 DOMESTIC MULTIPLE 09/25/982 YAKI 30.0 G L M COUGHLIN WELL

S4*08335A 18 08335 COMMERCIAL/INDUSTRIAL 04/15/948 R YAKI 1.0 / G GIBSON PACKING CO YAKIMA R COLUMBIA R

0022325 L9/10711/12 BL30 TWIN YAKIMA HEAT EXCHANGE 04/01/942 E YAKI 350.0 G NEWBERRY L.L. CO 149.0 WELL

G4*00244S 19 00244 BL-D NFRY CO R OF W PLATCOMMERCIAL/INDUSTRIAL 08/20/929 YAKI 550.0 G CALIF PACKING CORP WELL 185.0

G4*01417C 19 01417 BL-9 CITY OF YAKIMA HEAT EXCHANGE 03/16/950 YAKI 02/15/951 YAKIMA COMM HOUSE WELLS 99.0

G4*05324C 19 05324 BL5 HOME ADDN IRRIGATION 06/12/959 YAKI 02/26/960 YAKIMA SCH DIST #7 WELL 26.0

G4*05915C 19 05915 BL17B PARKER ADDN TO YAKIMA IRRIGATION 01/19/961 YAKI 04/21/961 YAKIMA SCH DIST #2 WELL 14.0

G4-27555P 19 L-17/32 BL-9 YAKIMA NORTH HEAT EXCHANGE 07/07/981 YAKI 02/23/982 YAKIMA CO COMMISS WELLS 700.0 G

G4-22921C 19 HEAT EXCHANGE 05/07/982 YAKI 03/01/983 AMER. RED. CROSS(YAK) WELL 88.0

G4-20026A 19 NE4SE4 HEAT EXCHANGE 08/27/982 R YAKI 110.0 G AMERICAN RED CROSS WELL

G4-29282A 19 ESTSW4 DOMESTIC MULTIPLE 04/03/987 R YAKI 60.0 G EASTWOOD CLYDE WELL

G3*00303G 20 10809 09858 FAIR ST L 15828 PL LHS YAKIMIRRIGATION 05/18/970 YAKI 09/03/970 WA ST HIGHWAY COMM WELL 32.0

G4*04954C 20 04954 DOMESTIC MUNICIPAL 08/04/958 YAKI 01/23/959 YAKIMA CITY OF 3080.0 WELL

06979C 20 06979 NE4 NE4 DOMESTIC SINGLE 01/08/964 YAKI 03/13/964 VAN NOSTERN J G 45.6

06979C 20 06979 NE4 NE4 DOMESTIC SINGLE 01/08/964 YAKI 03/13/964 VAN NOSTERN J G 45.6

06979C 20 06979 NE4 NE4 DOMESTIC SINGLE 01/08/964 YAKI 03/13/964 VAN NOSTERN J G 45.6

06979C 20 06979 NE4 NE4 DOMESTIC SINGLE 01/08/964 YAKI 03/13/964 VAN NOSTERN J G 45.6

G4*07591C 20 07591 07118 05730 04/14/965 YAKI 07/26/965 WA ST HIGHWAY COMM WELL 5.6

G4*07591C 20 07591 07118 05730 04/14/965 YAKI 07/26/965 WA ST HIGHWAY COMM WELL 5.6

G4*23041C 20 5W4NW4 IRRIGATION 06/05/974 YAKI 12/12/975 YAKIMA PK3 & REGR INFILTRATION TR 19.5

G4-23494C 20 NW4 SE4 DOMESTIC SINGLE 09/28/974 YAKI 12/26/975 CENTRAL PRE-MIX CO WELL 2.0

G4-26557C 20 SW4NW4 IRRIGATION 02/15/980 YAKI 12/04/980 WELLS CLIFFORD WELL 2.0

G4-28267C 20 SW4NE4 IRRIGATION 07/29/983 YAKI 04/24/984 YAKIMA R REG GREEN WELL 55.1

CONTROL # SEC OLD APRL OLD PERM CERT DATE OF S C A CNTY FERRIT NAME SOURCE OF APPROPRIATION TRIBUTARY OF
 PIS P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE TYPE Q1 ANNUAL C R S GA ANNUAL C R S AC C S PRO- TIME OF R R R
 WATER RESOURCE INVENTORY AREA- 37 PURPOSE OF USE
 TOWNSHIP - 13 RANGE - 19 E

CONTROL #	SEC	OLD	APRL	OLD	PERM	CERT	DATE OF	S	C	A	CNTY	FERRIT	NAME	SOURCE OF APPROPRIATION	TRIBUTARY OF			
G4-28530A	20						09/05/984	R			YAKI	95.0	G	YAKIMA P. GREENWAY	WELL	9.5	IS	
I																		
S4-23495C	20						09/28/974				YAKI	12/26/975	CENTRAL PRE MIX CO	UNN POND			S	YAKIMA R
I																		
G3+00785C	21	12153					08/16/971				YAKI	02/20/973	CONRAD LYLE					
I																		
G3+20480P	21						12/29/972	C			YAKI	05/30/973	CHG INTERNATIONAL	WELL				
I																		
G4+00623S	21	00623					09/09/924				YAKI	200.0	G	YAKIMA CO. HORT	UNI WELL			
I																		
G4+00625S	21	00625					09/00/924				YAKI	200.0	G	YAKIMA CO. HORT	UNI WELL			
I																		
G4+01702C	21	01702					10/16/958				YAKI	100.0	G	YAKIMA CO. HORT	UNI WELL			
I																		
G4+04587C	21	04587					04/25/957				YAKI	750.0	G	BLUE RIBBON GROWER	WELL			
I																		
G4+07755C	21	07755					09/24/965				YAKI	12/02/965	CONRAD L	WELL				
I																		
G4+08718C	21	08718					05/05/907				YAKI	1500.0	G	SNOKIST GROWERS	WELL			
I																		
G4+09193C	21	09198					02/02/968				YAKI	10/02/968	SNOKIST GROWERS	WELL				
I																		
G4-01151CAL	21	06121A					12/04/961				YAKI	02/20/962	WA ST PK&REC COMM	WELL				
I																		
G4-23191C	21						06/22/974				YAKI	07/29/975	LEWIS ALLEN H	WELL				
I																		
G4+09353C	21	09353					01/10/950				YAKI	01/15/951	WA ST PK&REC COMM	UNN STR				
I																		
G3+00931C	22	11738					03/30/971				YAKI	03/31/972	YAKIMA COUNTY CLU	WELL				
I																		
G3+20078C	22						03/06/972				YAKI	06/25/973	DITONKASO ANTHONY	WELL				
I																		
G3+20031C	22						11/07/973				YAKI	11/22/976	YAKIMA COUNTY CLU	WELL				
I																		
G4+00238S	22	00238					06/01/926				YAKI	165.0	G	COUNTRY CLB. DIST W	WELL			
I																		
G4+00228C	22	00282					06/21/946				YAKI	05/17/949	COUNTRY CLUB DIST	WELLS				
I																		
G4+05574C	22	05774					04/19/960				YAKI	07/08/960	ROBERTS R R ET AL	WELL				
I																		
G4-24324C	22						06/15/976				YAKI	06/10/977	PORTER MARY E	WELL				

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 4 PAGE 320 REPORT DATE 1/23/92

CONTROL # SEC OLD OLD OLD DATE OF S C A CNTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
OF R # APPL PERM CRRT PRIORITY T C M USE DATE INST C R S QA IRR C S PRO- TIME OF R R R
PTS P LOC. OF POD/POW (CHG C#) PURPOSE OF USE TYPE QI M U U GA AC M U VISOS USE I A C

WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 13 RANGE - 18 E

1 N2N/4 IRRIGATION DOMESTIC SINGLE STOCK WATERING C 1.6 C 3 C 3 80.0 Q 04011015

G4-01159 34 01159 01106 01684 07/01/949 E C YAKI 11/28/949 PEARSON EDGAR A 180.0 U WELL/INFILTRATION TR A IS

G4-02339 34 02339 02640 03/13/952 C C YAKI 03/13/953 DECOTO R A 240.0 VE WELL 60.0 IS

G4-05885 34 05885 05563 03/24 03/24/961 03/24 03/24/961 03/24 03/24/961 C YAKI 06/27/961 MCCOY R A 21.6 2 2 4.0 IS

06609 34 06609 06243 04883 02/13/963 04883 02/13/963 C YAKI 06/07/963 SHELTON C L 68.0 S INFILTRATION TR 17.0 IS

G4-24465 34 24465 04698 12/02/976 08/09/977 CONGDON ORCHARDS I 101.0 S WELL 101.0 RK 04011031

G4-24528 34 24528 08562 02/02/977 03/08/978 DECOTO WILLIS 800.0 G 2 2 2.0 S 570.0 2 2 150.0 RHM 04011031

G4-27445 34 27445 09807 04/23/981 04/23/982 GITCHEL RALPH L 1.0 G 2 2 6.0 S WELL 1.5 IS

S4-20203 34 20203 00857 00/00/879 08/28/949 CALVARY CEMETERY 32.0 G 3 3 105.0 S WELL 16.0 IS

G4-04933 34 04933 04698 05318 07/24/958 01/23/959 YAKIMA CITY OF 3200.0 G YAKI 01/23/959 YAKIMA CITY OF 3200.0 S WELL A

G4-05354 34 05354 08562 07/85 04/05/958 07/85 04/05/958 YAKI 07/05/958 TRONTECH CORP 100.0 G 2 2 25.0 S WELL 10.0 RNM 03010930

G4-10415 34 10415 09807 07325 09/18/969 08/11/970 WA ST DEPT OF GAME 600.0 G YAKI 08/11/970 WA ST DEPT OF GAME 600.0 S WELL RP 04010631

01133 34 07792 07333 09/16/945 01/18/966 DAHLKE K W 5.0 G YAKI 01/18/966 DAHLKE K W 5.0 S WELL HA

G4-24366 34 24366 09807 08/21/979 04/21/980 DAVIS HUGH E 16.0 G YAKI 04/21/980 DAVIS HUGH E 16.0 S WELL R 04011031

G4-29063 34 29063 08562 08/13/986 02/24/987 DOWTY DECOTO INC 30.0 G YAKI 02/24/987 DOWTY DECOTO INC 30.0 S WELL RK 04011031

G4-29064 34 29064 00699 12/08/988 06/13/991 YAKIMA CITY CF 3200.0 G YAKI 06/13/991 YAKIMA CITY CF 3200.0 S WELL \$RK

S4-04222 34 04222 02291 01856 05/01/936 07/30/936 WA ST DEPT OF GAME SPRING CR 7.0 G YAKI 07/30/936 WA ST DEPT OF GAME SPRING CR 7.0 S WELL BACHELOR CR

G4-09492 34 09492 06745 03871 03/29/950 10/21/950 WA ST DEPT OF GAME SPRING CR 10.0 G YAKI 10/21/950 WA ST DEPT OF GAME SPRING CR 10.0 S WELL BACHELOR CR

S4-29217 34 29217 03/06/987 03/06/987 R YAKI / / MACKENZIE ROBERT E WIDE HOLLOW CR YAKI 03/06/987 R YAKI 03/06/987 R MACKENZIE ROBERT E WIDE HOLLOW CR YAKI 03/06/987 R YAKI 03/06/987 R MACKENZIE ROBERT E WIDE HOLLOW CR YAKI 03/06/987 R YAKI 03/06/987 R MACKENZIE ROBERT E WIDE HOLLOW CR

S4-29252 34 29252 06/14/987 06/14/987 R YAKI / / GRAHAM ESTHER A WIDE HOLLOW CR YAKI 06/14/987 R YAKI 06/14/987 R GRAHAM ESTHER A WIDE HOLLOW CR YAKI 06/14/987 R YAKI 06/14/987 R GRAHAM ESTHER A WIDE HOLLOW CR YAKI 06/14/987 R YAKI 06/14/987 R GRAHAM ESTHER A WIDE HOLLOW CR

G4-04804 34 04804 04560 03210 03/12/958 07/18/958 METRO PK DIV YAKIM WELL YAKI 07/18/958 METRO PK DIV YAKIM WELL YAKI 07/18/958 METRO PK DIV YAKIM WELL YAKI 07/18/958 METRO PK DIV YAKIM WELL YAKI 07/18/958 METRO PK DIV YAKIM WELL YAKI 07/18/958 METRO PK DIV YAKIM WELL

CONTROL # SEC OLD FERM OLD DATE OF S C A C N T Y PERMIT NAME ANNUAL G R S SOURCE OF APPROPRIATION TRIBUTARY CF
 PFS R LOC. OF POD/POW (CHG C*) PURPOSE OF USE IRRIGATION T C M USE DATE INST C U S G A M U D IRR G S PRO- TIME OF R R R
 WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 13 RANGE - 18 E

1 BLD STATE ADDN TO YAKIMA IRRIGATION C 240.0 G 34.0 8.6 A IS

G4-07952P 36 07952 07512 02/09/966 C YAKI 06/24/966 YAKIMA CO SCH DI 7 WELL 24.0 AE IS

1 L16 PR2 MOSEAU BROTHERS ADMIN IRRIGATION C 240.0 G 45.0 7.0 R 04011031

G4-20108G 36 04/25/983 IRRIGATION C YAKI 02/27/984 RFB INC 20.0 7.0 R 04011031

G4-29420C 36 09/18/987 DOMESTIC MULTIPLE C YAKI 10/31/988 WILLIAMS FRED C 6.0 7.0 R 04011031

G4-000511A 36 00511 IRRIGATION C YAKI / / C SNEAD R F 18.67 18.67 WIDE HOLLOW CR

20907A 36 06/24/986 R IRRIGATION C YAKI / / C PERKINS PAUL E 25.0 25.0 WIDE HOLLOW CR

TOWNSHIP - 13 RANGE - 19 E

G4-26244B 01 05/11/979 C DOMESTIC MULTIPLE C YAKI 09/24/979 KOKENGE ROY 5.0 5.0 WELL

1 NE4SW4 IRRIGATION C 300.0 G 2 122.0 40.0 R 04011031

G4-07588C 07 07588 07115 05/17/971 IRRIGATION C YAKI 07/26/965 WA ST HIGHWAY COMM WELL 9.6 2.4 R IS

G4-01142C 07 11925 10599 03/02/979 IRRIGATION C YAKI 08/09/979 KLINGELE JAMES 27.0 7.0 R 04011031

G4-24120C 07 06/12/989 IRRIGATION C YAKI 06/15/990 KENNETH KNIGHT 11.0 2.5 R 04011031

G4-30014B 07 12/10/984 DOMESTIC SINGLE C YAKI 04/25/985 OSTRANDER TERRY L 1.0 9.5 R 04011031

G4-28578B 09 06/19/978 YAKIMA SHEEP CO 348.0 131.0 R 04011031

G4-25728B 10 11/09/972 DOMESTIC MULTIPLE C YAKI 05/19/978 YAKIMA SHEEP CO 23.0 131.0 R 04011031

G4-23772B 10 03/14/979 DOMESTIC MULTIPLE C YAKI 05/19/978 YAKIMA SHEEP CO 23.0 131.0 R 04011031

G4-26519AAL 10 01/08/980 R DOMESTIC MULTIPLE C YAKI 1800.0 G TERRACED ESTATES W WELL

G4-20650P 10 03/27/985 DOMESTIC MULTIPLE C YAKI 07/02/985 YAKIMA RANCHES INC WELL 19.0 19.0 R 04011031

G4-28651P 10 03/27/985 DOMESTIC MULTIPLE C YAKI 07/01/985 YAKIMA RANCHES LTD WELL 18.0 18.0 R 04011031

G4-28708C 10 06/06/985 DOMESTIC MULTIPLE C YAKI 11/22/985 ROCKSTEAD D & L 2.0 2.0 R 04011031

G4-30697A 10 04/03/991 DOMESTIC MULTIPLE C YAKI / / G ROSS STACY 60.0 G 60.0 WELL

G4-28872B 11 02/19/986 DOMESTIC SINGLE C YAKI 10/16/986 COOK HAROLD 1 2.0 2.0 WELL

G4-30419A 11 10/12/970 DOMESTIC SINGLE C YAKI / / G FERNALD D A 150.0 G 10.0 WELL

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

G4-26091G 12 01/11/979 DOMESTIC MULTIPLE C YAKI 04/06/979 TAYLOR LAVERN 2.0 15.0 R 04011031

WATER RESOURCE INVENTORY AREA- 37

TOURNEP - 13 RANGE - 15 E			RANGE - 15 E				
1	SE4 NE4 SW4	DOMESTIC MULTIPLE	C	100.0 G	12.6	U	RN
G4*00359C	19 09359	06652	07007	06/04/96C	YAKI 09/19/968	DILLINGER J 2.0	WELL
1	NE4 SE4	DOMESTIC SINGLE	C	225.0 G			WELL
G4-27375P	19	03/17/981	C	YAKI 09/22/982	STURM WM W	1.0	WELL
1	SW4 SW4	DOMESTIC SINGLE	C	100.0 G			WELL
1	SW4 SW4	IRRIGATION	C	100.0 G			WELL
G4-30403A	19	12/05/980	R	YAKI 10.0 G	HANNON J K		WELL
1	SW4 SW4	DOMESTIC MULTIPLE	C	1400.0 G			WELL
G4*006435C	20 05435	05100	05300	11/12/95E	YAKI 01/26/960	NOB HILL WTR CO	WELL
1	L6 BL2	VIENHONT PK SUBD V				1120.0	
26882C	20	02/16/977	C	YAKI 10/11/977	BERGEN HAROLD S	38.0	WELL
1	NE4 SW4	IRRIGATION	C	100.0 G			WELL
G4-25006P	20	05/17/977	C	YAKI 06/26/978	BURNHAM LARRY D	25.0 G	WELL
1	NE4 SW4	DOMESTIC SINGLE	C	25.0 G			WELL
1	NE4 SW4	IRRIGATION	C	25.0 G			WELL
G4-25230G	20	03/20/987	C	YAKI 07/24/987	HILER LLOYD M	8.0	WELL
1	NE4 SW4	IRRIGATION	C	20.0 G			WELL
1	SW4 SW4	HEAT EXCHANGE	N	YAKI 02/25/985	WESTSIDE BAPTIST C		WELL
G4*006220C	21 00520	00541	02819	07/07/947	YAKI 01/30/948	NOB HILL WTR CO	WELL
1	SW4 SW4	DOMESTIC MULTIPLE	C	1600.0 G			WELL
1	SE4 SE4	DOMESTIC SINGLE	C	100.0 G			WELL
1	SE4 SE4	IRRIGATION	C	100.0 G			WELL
G4*00204C	21 02084	02086	01071	08/20/951	YAKI 03/20/952	JOSEPH G F	WELL
1	SW4 SE4	COMMERCIAL/INDUSTRIAL	C	50.0 G			WELL
G4*005061C	21 05861	05551	04289	03/06/961	YAKI 06/22/961	CATHOLIC CORP BISH	WELL
1	SW4 SE4	DOMESTIC SINGLE	C	30.0 G			WELL
1	SW4 SE4	IRRIGATION	C	200.0 G			WELL
G4*10739C	21 10739	09826	07282	03/30/970	YAKI 08/14/970	G F JOSEPH ORCH SI	WELL
1	NE4 SW4	SE4	C	YAKI 200.0 G			WELL
27527C	21	07/14/981	C	YAKI 12/29/982	G F JOSEPH ORCH SI		WELL
1	SE4 SE4	COMMERCIAL/INDUSTRIAL	C	340.0 G			WELL
G4*07540C	22 07540	07200	05523	03/19/965	YAKI 10/19/965	ENGLEWOOD CHRISTIA	WELL
1	SW4 SE4	HEAT EXCHANGE	C	100.0 G			WELL
G4*00307S	24 00207	00294	00294	00/00/922	YAKI 250.0 G		WELL
1	L1 BL B	CITY OF YAKIMA	C	YAKI 400.0 G			WELL
G4*00303S	24 00309	00292	00292	00/00/926	YAKI 400.0 G		WELL
1	L2 BL B	CITY OF YAKIMA	C	YAKI 400.0 G			WELL
G4*00624S	24 00624	00619	00619	00/00/924	YAKI 350.0 G		WELL
1	L1 BL A	PLAT OF YAKIMA	C	YAKI 350.0 G			WELL
G4*00759S	24 00759	00613	00613	06/01/936	YAKI 200.0 G		WELL
1	L1 G BL209	UPRR	C	YAKI 200.0 G			WELL
G4*00820S	24 00820	00879	00879	07/00/944	YAKI 400.0 G		WELL
1	L6 BL209	CITY OF YAKIMA	C	YAKI 400.0 G			WELL
G4*00993S	24 00993	00941	00941	08/00/940	YAKI 2000.0 G		WELL
1	L1 B44	NEW NDN ADD	C	YAKI 1500.0 G			WELL

WELL/INFILTRATION TR

CONTROL # SEC OLD APPL OLD PERM OLD CERT DATE OF S C A CNTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
 # OF R PIS P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE TYPE INST M U U QA M U U IRR C S PRG- TIME OF R R R
 WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 13 RANGE - 13 E

G4*04807C 26 04807 04516 03105 03/03/958 YAKI 06/09/958 YAKIMA CITY OF INFILTRATION TR IS
 I NE CORNER BL287 SYN SUBDIV IRRIGATION 1200.0 G 960.0 S 700.0

G4*05505C 26 05505 05105 03148 02/18/960 YAKI 05/16/960 AIKEN C. S. S. WELL 60.0
 I L10 BL272 KERR ADD TO YAKIMARHEAT EXCHANGE 50.0 G 2

G4*06025C 26 06025 05741 04540 08/16/961 E YAKI 01/12/962 BAUR F H WELL 14.5 2
 I L3 COTTAGE HILL ADDITION DOMESTIC SINGLE 50.0 G 2 14.5 U 2.0 A IS

G4*08803C 26 08803 06522 04349 12/13/963 YAKI 03/13/974 HOPS EXTRACT CORP WELL 224.0
 I BL207 TOWN OF N YAKIMA HEAT EXCHANGE 140.0 G 2

G4*07844C 26 07844 07324 05976 10/29/965 YAKI 01/11/966 YAKIMA CITY CREAME WELL 160.0
 I L5 BL293 CAPITOL & KER ADDN HEAT EXCHANGE 300.0 G

G4*23912C 26 23912 06239 06239 09/29/974 YAKI 07/29/975 WASHINGTON FRUIT&P WELLS 474.0 2
 I NE4 NE4 HEAT EXCHANGE 550.0 G 2 474.0 2 R

G4-27112C 26 27112 10/01/980 YAKI 04/28/982 YAKIMA CITY CREAME WELL 40.5
 I SE4N4RSE4 COMMERCIAL/INDUSTRIAL 23.0 G

G4-20312C 26 20312 10/12/983 YAKI 04/13/984 DENTAN ASSOCIATES WELLS 33.0
 I SW4SW4 HEAT EXCHANGE 33.0 G

G4-29924A 26 29924 05/10/989 YAKI 6/0.0 G YAK UN GOSEEN MTSN WELL 6.0
 I SE4NE4 HEAT EXCHANGE 6.0 G

G4*00089C 25 00896 00785 00452 06/05/948 YAKI 08/16/948 YAKIMA VALLEY JR C WELL 24.0
 I W252SW4HW4 IRRIGATION 50.0 G 24.0

G4*00791S 25 00991 00939 04/00/945 YAKI 5/0.0 G YAKIMA CITY OF WELL 20.0
 I N25W7HW4 IRRIGATION 80.0

G4-01122C 25 01128 01020 00710 05/20/949 YAKI 08/16/949 YAKIMA SCH DIST #7 WELL 28.0
 I SE4SW4HW4 IRRIGATION 100.0 G 28.0

G4*07232C 25 07502 07205 05268 04/22/965 YAKI 10/19/965 COMB. B. C. ET AL WELLS 240.0
 I L-2K3 MATTERSON AC TR HEAT EXCHANGE 150.0 G 240.0

G4*10733C 25 10733 09970 07030 03/27/970 YAKI 09/10/970 HUNTINGER J N WELL 2.0
 I L4 JOHNSON ORCH HOME TR DOMESTIC SINGLE 10.0 G 2.0

G4*05325C 26 05325 05033 03703 06/12/959 YAKI 11/20/959 YAKIMA SCH DIST #2 WELL 34.0
 I N14 SE4 IRRIGATION 86.0 G 34.0

G4*20651C 27 20651 12/06/972 YAKI 07/17/973 YAKIMA CITY OF WELL 153.0
 I SW4SW4 IRRIGATION 380.0 G 153.0

G4*01037C 27 01037 00979 00056 11/26/948 YAKI 05/16/949 WIKSTROM N O WELL 2.0
 I L13 PADDOCK GARDEN DOMESTIC SINGLE 13.0 G 2 2.0

G4-26177P 27 26177 03/29/979 C YAKI 06/19/979 MAGGARD HOWARD E WELL 8.0
 I SW4NE4 IRRIGATION 15.0 G 8.0

G4*20611P 28 20611 02/23/973 C YAKI 06/30/975 HUNT WESLEY A WELL 2.0
 I SE4SW4 FISH PROPAGATION 3.0 G 2.0

G4*00249C 28 00249 00202 00020 05/15/946 YAKI 07/15/946 BANNISTER ELIZABET WELL 460.0 4
 I W2V2SSE4NE4 DOMESTIC MULTIPLE 400.0 G 4 460.0 G 4

G4*00447S 28 00447 00377 01/18/913 CONGDON ORCH INC WELL 360.0 2
 I NE4SW4 DOMESTIC GENERAL 450.0 G 2 360.0 2

G4*00445S 28 00445 00375 00/00/920 YAKI / / CONGDON ORCH INC WELL 913.0
 I IRRIGATION 00/00/920

G4*00445S 28 00445 00375 00/00/920 YAKI / / CONGDON ORCH INC WELL 913.0
 I IRRIGATION 00/00/920

G4*00445S 28 00445 00375 00/00/920 YAKI / / CONGDON ORCH INC WELL 913.0
 I IRRIGATION 00/00/920

G4*00445S 28 00445 00375 00/00/920 YAKI / / CONGDON ORCH INC WELL 913.0
 I IRRIGATION 00/00/920

CONTROL # SEC OLD APPL OLD PERM OLD CERT DATE OF PRIORITY T C M S C A C NTV PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
 PTS P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE DATE INST C R S QA M U U AC C S PRO- TIME OF R R R
 WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 12 RANGE - 19 E

G4-23026C	03	GL 4	06/03/974	IRRIGATION	YAKI	10/31/975	POWELL	GEORGE W	26.0	WELL	6.0	R	04011001
G4-24691C	03	NR4 NW4	03/15/977	DOMESTIC SINGLE IRRIGATION	YAKI	02/22/978	FICKEL	MUNNICE	2.0	WELL	2.6	RW	04011031
G4-26165C	03	SW4SW4	03/26/979	DOMESTIC SINGLE IRRIGATION	YAKI	09/21/979	HATZENBICHLER	MATT	1.0	WELL	4.0	R	04011031
G4-231008C	04	SE4NW4	10/31/974	FISH PROPAGATION	YAKI	03/19/975	MORRIS	CLIFFORD F	UNN SPR			S	YAKIMA R
G4*00237S	05	BL2 ORIGINAL	00/00/936	DOMESTIC MUNICIPAL	YAKI	220.0 G	UNION GAP	TOWN OF	103.0	WELL			
G4*00916C	05	BL2 ORIGINAL	00/01/936	DOMESTIC MUNICIPAL	YAKI	120.0 G	UNION GAP	TOWN OF	56.0	WELL			
G4*00916C	05	BL2 ORIGINAL	00/295	DOMESTIC MUNICIPAL	YAKI	03/17/949	UNION GAP	TOWN OF	50.0	WELL			
G4*0112C	05	SW4SW4	04/30/949	DOMESTIC MUNICIPAL	YAKI	09/21/949	UNION GAP	TOWN OF	534.0	WELL			
G4*05294C	05	SW4 SW4 / L12 BL2 ORIG	05/042	DOMESTIC MUNICIPAL	YAKI	12/04/959	UNION GAP	TOWN OF	448.0	WELLS			
G4*05076C	06	SW4 NE4	04859	DOMESTIC MUNICIPAL	YAKI	06/23/959	UNION GAP	CITY OF	637.0	WELL		A	
G4*08206C	06	NR4SW4	07719	COMMERCIAL/INDUSTRIAL	YAKI	12/23/966	VALLEY FEED	CO	465.0	WELL		R	
G4*08207C	06	NR4SW4	07723	COMMERCIAL/INDUSTRIAL	YAKI	12/23/966	VALLEY FEED	CO	240.0	WELL		R	
G4*08208C	06	NR4SW4	07718	COMMERCIAL/INDUSTRIAL	YAKI	12/23/966	VALLEY FEED	CO	240.0	WELL		R	
G4*08209C	06	NR4SW4	07717	COMMERCIAL/INDUSTRIAL	YAKI	12/23/966	VALLEY FEED	CO	684.0	WELL		R	
G4*08603C	06	NR4SW4	07989	COMMERCIAL/INDUSTRIAL	YAKI	06/28/967	VALLEY FEED	CO	160.0	WELL			
G4-26698C	06	SE4SE4	05/22/985	IRRIGATION	YAKI	05/24/985	RENFRO	JAMES F	12.0	WELL	3.0		04011031
G4-26972C	06	SE4SE4	06/12/986	IRRIGATION	YAKI	09/24/986	RENFRO	JAMES F	12.0	WELL	3.0		04011031
G4-29699C	06	GL 7	03/24/988	IRRIGATION	YAKI	12/28/988	LANGELL	LEWIS	296.4	WELL	74.1		IS
G4-20435C	07	DL12	08/08/972	DOMESTIC MULTIPLE	YAKI	11/05/973	THORNTON	PERRY R	23.2	WELL		HTR	
G4*03508P	07	L-5	02365	MINING	YAKI	03/26/937	REESE	JAMES O		ANTHNUM CR			YAKIMA R
G4*08001A	08	08001A	07470A	IRRIGATION	YAKI	05/31/966	TULLY	C G ET AL	420.0	WELL	110.0	AE	IS
G4-25720C	08	NE4SW4	01/10/978	IRRIGATION	YAKI	05/10/978	WA ST	D O T	4.0	WELL	11.0	R	04011031
G4-00263A	08	00263	07/19/919		YAKI	/ /	LATIMER	JOHN W		WIDE HOLLOW CR			YAKIMA R

CONTROL # SEC OLD OLD DATE OF S C A CNTY PERMIT NAME ANNUAL C R S U GA SOURCE OF APPROPRIATION TRIBUTARY OF
 FOR R LOC. OF POD/ROW (CHG C#) PURPOSE OF USE TYPE USE INST M U U QA IRR C S PRO- TIME OF I A C
 PTS P AC H U VISOS USE OF R A R

WATER RESOURCE INVENTORY AREA- 37
 TOWNSHIP - 12 RANGE - 15 E

S4*200922J 08 NW4 NW4 IRRIGATION SINGLE 00/00/868 05 YAKI / 96 / C 3 WILCOX SELIM F HATTON CR 48.0 Q
 DOMESTIC SINGLE .96 C 3
 STOCK WATERING .96 C 3

S4*20220UBBB 08 NW4 NW4 IRRIGATION SINGLE 00/00/872 009 YAKI / / C 3 SEWARD S HATTON CR 60.0 Q
 DOMESTIC SINGLE 1.2 C 3
 STOCK WATERING 1.2 C 3

S4*20220UBBB 08 NW4 NW4 IRRIGATION SINGLE 00/00/879 15 YAKI / 46 / C 3 SEWARD O A HATTON CR 23.25 Q
 DOMESTIC SINGLE .46 C 3
 STOCK WATERING .46 C 3

23300J 08 NW4 NW4 IRRIGATION SINGLE 00/00/802 18 YAKI / / C 3 SEWARD O A HATTON CR 8.5 Q
 DOMESTIC SINGLE .17 C 3
 STOCK WATERING .17 C 3

G3+00220P 10 NE4 NE4 DOMESTIC SINGLE 06/10/971 C YAKI 10/23/972 REESMANS DAIRY WELL 17.0 Q
 IRRIGATION SINGLE 200.0 C 2
 COMMERCIAL/INDUSTRIAL 200.0 C 2

G3+21032A 10 SE4 NE4 DOMESTIC SINGLE 04/18/973 C YAKI 02/06/984 CORPMAN HAROLD C WELL 4.0 KR\$
 IRRIGATION 50.0 C 2
 50.0 C 2

G3+21963E 10 NE4 SE4 DOMESTIC SINGLE 10/17/973 YAKI 05/06/984 WILKINSON STANLEY WELL 40.0 KR\$
 IRRIGATION 350.0 C 2
 350.0 C 2

G4-23180G 10 NE4 NE4 IRRIGATION 06/21/974 C YAKI 06/06/984 MCDUGALL R L WELL 5.0 RK\$
 50.0 C 3

G3+00606C 11 IND ALLOT NO 2779 IN SW4 NW4 DOMESTIC SINGLE 04/28/971 C YAKI 06/07/973 WESTBERG FRED H WELL 2.0 R
 IRRIGATION 30.0 C 2
 30.0 C 2

G4*07259C 11 NW4 SE4 UTIL 07/07/984 YAKI 03/05/985 ALLAN BROS INC WELL 70.0 AE\$
 IRRIGATION 450.0 C 2
 450.0 C 2

G4-23133G 11 NW4 NW4 DOMESTIC SINGLE 06/15/974 C YAKI 09/12/984 HANNA ROGER C WELL 1.45 R\$
 IRRIGATION 19.0 C 2
 19.0 C 2

25272A 11 NE4 SE4 DOMESTIC SINGLE 05/20/977 R YAKI / / WILSON JAMES ET UX WELL 35.0 IS
 IRRIGATION 360.0 C 2
 360.0 C 2

G4-28072G 11 NW4 NW4 IRRIGATION 10/26/982 C YAKI 10/04/982 BROEYJE RALPH WELL 60.0 R\$
 350.0 C 3
 350.0 C 3

G4-29818A 11 NW4 NW4 DOMESTIC MULTIPLE 10/10/988 C YAKI / / KINDER RICH & J WELL
 IRRIGATION 50.0 C 2
 50.0 C 2

G4-30212A 11 NW4 NW4 FROST PROTECTION 03/15/990 C YAKI 800.0 G J N CAMPBELL WELL
 IRRIGATION 80.0 C 3
 80.0 C 3

S4*20169J 11 NW4 NW4 IRRIGATION 00/00/870 E YAKI / / BELL ELSTER N AHTANUM CANAL 5.0 Q
 DOMESTIC SINGLE .1 C 3
 STOCK WATERING .1 C 3

G3+21239G 12 NW4 NW4 DOMESTIC SINGLE 06/04/973 YAKI 06/04/984 LAYMAN W STANLEY WELL
 IRRIGATION 30.0 C 2
 30.0 C 2

G3+22436G 12 NW4 NW4 DOMESTIC SINGLE 01/29/974 YAKI 06/14/984 SMITH J M WELL 2.0 KR\$
 IRRIGATION 30.0 C 2
 30.0 C 2

G3+22436G 12 NW4 NW4 DOMESTIC SINGLE 01/29/974 YAKI 06/14/984 SMITH J M WELL 2.0 KR\$
 IRRIGATION 30.0 C 2
 30.0 C 2

CONTROL # SEC OLD OLD DATE OF S C A C N T Y PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
 PTS R LOC. OF POD/POW (CHG C#) PURPOSE OF USE CERT PRIORITY I C M USE DATE INST M U S GA M U S IRR C S PRO TIME OF R R R
 WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 12 RANGE - 18 E

G4-24451G 12 04/25/904 IRRIGATION YAKI 11/07/984 MCMECHAN M H 11.6 WELL 14.5 \$ 04011031

G4-24452C 12 04/25/984 DOMESTIC MULTIPLE YAKI 08/20/984 MCMECHAN M H 9.0 WELL R\$ 00000000

G4-29721A 12 04/19/988 DOMESTIC SINGLE R YAKI 20.0 G 2 REICH GARY 20.0 G 2 WELL 1.0 IS 00000000

G4-29721A 12 04/19/988 IRRIGATION C YAKI 20.0 G 2 REICH GARY 20.0 G 2 WELL 1.0 IS 00000000

G4-29727A 15 04/07/980 R DOMESTIC MULTIPLE YAKI 570.0 G 2 NYSSSEN BING 570.0 G 2 WELL 48.0 IS

G4-29727A 15 09/12/985 FROST PROTECTION YAKI 2800.0 G 2 VALLEY ROZ ORCH IN WELL 2800.0 G 2 WELL 720.0 IS

G4-24729A 25 02/17/977 IRRIGATION YAKI 300.0 G GARREVALI JOE 300.0 G WELL 40.0 IS

G4-23950A 27 06/18/974 IRRIGATION YAKI 5040.0 G VALLEY ROZ ORCHARD WELLS 5040.0 G WELL 80.0 IS

G4-23952G 27 06/26/974 IRRIGATION YAKI 800.0 G KELLER FRUIT STORA 800.0 G WELL 80.0 R\$ 04011015

G4-24172A 33 01/29/976 IRRIGATION YAKI 900.0 G LACAILLE GERARD 900.0 G WELL 80.0 IS

G4-24207A 33 02/24/976 FROST PROTECTION YAKI 300.0 G 2 NYBERG HERBERT P 300.0 G 2 WELL 40.0 IS

G4-29614A 36 02/19/988 IRRIGATION YAKI 700.0 G 2 COWIN RICHARD E 700.0 G 2 WELL 40.0 IS 00000000

TOWNSHIP - 12 RANGE - 19 E

G4-00614S 01 01/00/914 DOMESTIC MUNICIPAL YAKI 150.0 G MOXEE CITY TOWN OF WELL 150.0 G WELL 84.0

G4-00626C 01 00626 00727 REC & BEAUTIFICATION YAKI 06/21/948 MOXEE CITY TOWN OF WELL 300.0 G 149.0

G4-05064 01 05064 04759 IRRIGATION YAKI 05/16/959 YAKIMA CO SCH OF 9 WELL 170.0 G 40.0 AEN IS

G4-29747A 01 06/06/928 COMMERCIAL/INDUSTRIAL YAKI 3.5 G BAY ZINC COMPANY WELLS 3.5 G WELL 10.0 IS

G4-29747A 01 06/06/928 IRRIGATION YAKI 3.5 G BAY ZINC COMPANY WELLS 3.5 G WELL 10.0 IS

G4-05023C 02 05823 05512 04504 02/02/961 DOMESTIC SINGLE YAKI 05/08/961 STAPLETON J R 125.0 G 2 89.8 2 16.0 A IS

G4-24447C 02 10/11/976 DOMESTIC MULTIPLE YAKI 08/05/977 COUNTRY MOBILE EST WELL 200.0 G 27.0 R

G4-24805T 02 03/03/977 IRRIGATION YAKI 04/19/977 NORTON CHARLES 43.0 WELL 10.0 R IS

G4-25450C 02 08/09/977 DOMESTIC MULTIPLE YAKI 02/22/978 COUNTRY NOBILE EST WELLS 225.0 G 32.0 R

G4-25451C 02 10/26/977 DOMESTIC SINGLE YAKI 03/30/978 ZIMMER GEORGE 2.0 WELL 2.0 R 04011031

G4-27953G 02 05/26/982 DOMESTIC SINGLE YAKI 12/29/982 CYR MICHAEL ET UX WELL 30.0 G 2 8.4 2.0 M M 04011031

G4-27953G 02 05/26/982 IRRIGATION YAKI 12/29/982 CYR MICHAEL ET UX WELL 30.0 G 2 8.4 2.0 M M 04011031

CONTROL # SEC OLD APP# OLD FERM CERI DATE OF S C A CMTY PERMIT NAME ANNUAL C R S SOURCE OF APPROPRIATION TRIBUTARY OF
 PTS P LOC. OF POD/POM (CHG C#) PURPOSE OF USE IRR C S PRO- TIME OF R R R
 AC M U VIOS USE I A C

WATER RESOURCE INVENTORY AREA- 37

TOWNSHIP - 12 RANGE - 17 E 04/17/987 R COMMERCIAL/INDUSTRIAL YAKI / .25 / C HELLMUNS RICHARD D UNN STR

G4-23900P 01 04/07/975 C YAKI 08/15/975 GRAVES ELDON 2.0 WELL R

G4-28752A 01 09/16/985 R YAKI 100.0 G BURROWS TRACTOR CO WELL 10.0 IS

G4-33065A 01 09/06/989 C YAKI 100.0 G CLASEN FRUIT CO WELL

0171J 01 00/00/870 N 07 YAKI / / C TITTLE E BACHELOR GR 40.0

0171J 01 00/00/872 C YAKI / / C COPE W C BACHELOR GR 20.0

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 40.0

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 40.9

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 32.0

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

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0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

0171J 01 00/00/872 C YAKI / / C GOODMAN D G BACHELOR GR 43.5

CONTROL # SEC OLD APP OLD PERM CERT DATE OF S C A C M T C M USE TYPE INST DATE C R S M U U ANNUAL G R S M U U IRR C S PRO- TIME OF R R R
 PITS P LOC. OF POD/POW (CHG C*) PURPOSE OF USE WATER RESOURCE INVENTORY AREA - 37

TOWN: SHIP - 12 RANGE - 18 E

1 SE4NE4 IRRIGATION C 300.0 G 195.0 S 38.0 R 04011031
 04-28991DAT 02 06/26/986 IRRIGATION YAKI 03/28/989 MRS RILEY KELLEY WELL 40.0 \$RK 07101031-2-2
 01-23911BET 02 06/26/986 IRRIGATION C YAKI 03/28/989 MRS RILEY KELLEY WELL S 40.0 \$RK 04010710 2 2
 1 HW4SW4 IRRIGATION

04-290508 02 08/29/986 STOCK WATERING YAKI 12/30/986 KWIK LOK CORP WELL 80.0 \$RK 04011031
 1 HW4SE4 IRRIGATION C 800.0 G 2 320.0 80.0
 04-290508 02 09/12/988 IRRIGATION YAKI 04/30/991 MOOREHEAD MEL WELL 10.0 \$RK 04101031
 GL-5 SW4SW4 IRRIGATION C 300.0 G 3 38.0 1.0 \$RK
 IRRIGATION C 300.0 G 3 1.0 44.0 S \$RK 04011015

04-30102A 02 02/16/990 IRRIGATION YAKI 300.0 G B BOHANNON WELL 34.0 IS
 1 HW4SW4 IRRIGATION
 04-20110J 02 00/00/868 IRRIGATION 05 YAKI / / CARPENTER G W BACHELOR CR 72.0 AHTANUM CR
 1 L1 IRRIGATION C 1.04 C 3 1.04 C 3
 DOMESTIC SINGLE C 1.04 C 3
 STOCK WATERING C 1.04 C 3

04-20172J 02 00/00/870 IRRIGATION 07 YAKI / / SCHROEDER C / E BACHELOR CR 40.0 AHTANUM CR
 1 L2 IRRIGATION C .8 C 3 .8 C 3
 DOMESTIC SINGLE C .8 C 3
 STOCK WATERING C .8 C 3

04-20173J 02 00/00/870 IRRIGATION 07 YAKI / / SNIVELY H J BACHELOR CR 20.3 AHTANUM CR
 1 HW4 NE4 IRRIGATION C .406 C 3 .406 C 3
 DOMESTIC SINGLE C .406 C 3
 STOCK WATERING C .406 C 3

04-20174JBL 02 00/00/871 IRRIGATION 08 YAKI / / SCHREINER J F AHTANUM CR 50.0 AHTANUM CR
 1 L3 IRRIGATION C 1.0 C 3 1.0 C 3
 DOMESTIC SINGLE C 1.0 C 3
 STOCK WATERING C 1.0 C 3

04-20237J 02 00/00/872 IRRIGATION 09 YAKI / / HARVEY J BACHELOR CR 10.0 AHTANUM CR
 1 L2 IRRIGATION C .2 C 3 .2 C 3
 DOMESTIC SINGLE C .2 C 3
 STOCK WATERING C .2 C 3

04-20238J 02 00/00/872 IRRIGATION 09 YAKI / / SAVAGE D L BACHELOR CR 63.6 AHTANUM CR
 1 L2 IRRIGATION C 1.27 C 3 1.27 C 3
 DOMESTIC SINGLE C 1.27 C 3
 STOCK WATERING C 1.27 C 3

04-20302J 02 00/00/802 IRRIGATION 18 YAKI / / HARVEY J ESTATE BACHELOR CR 10.0 AHTANUM CR
 1 L2 IRRIGATION C .2 C 3 .2 C 3
 DOMESTIC SINGLE C .2 C 3
 STOCK WATERING C .2 C 3

04-20320J 02 00/00/864 IRRIGATION 20 YAKI / / HARVEY J ESTATE BACHELOR CR 51.4 AHTANUM CR
 1 L2 IRRIGATION C 1.28 C 3 1.28 C 3
 DOMESTIC SINGLE C 1.28 C 3
 STOCK WATERING C 1.28 C 3

04-29452A 02 12/23/987 FROST PROTECTION YAKI 9.0 / / AHTANUM ORCHARDS AHTANUM CR YAKIMA R IS
 1 SW4SW4 IRRIGATION
 03100402P 03 12123 DOMESTIC SINGLE YAKI 06/25/973 RASNUSSEN FRANK G WELL 10.0 04251015
 1 HW4 SW4 IRRIGATION C 90.0 G 43.0 10.0 K 04251015

03+20233C 03 05/30/972 DOMESTIC SINGLE YAKI 05/20/975 HEADLEY JOE R WELL 2.0 R1 04151015
 1 GOVT LS IRRIGATION C 33.0 G 2 33.0 G 2 R1 04151015

TABLE 27 - ESTIMATED EVAPOTRANSPIRATION (Inches of Water)

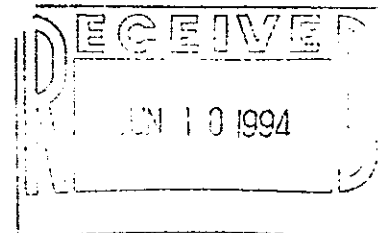
STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN.
<u>GRANT COUNTY</u>													
<u>Ephrata</u>													
Precip.	1.0	.7	.6	.6	.7	1.0	.2	.3	.4	.7	1.0	1.2	8.4
PET		.1	.8	2.0	3.7	5.0	6.5	5.7	3.6	1.7	.3		29.4
Ea(6)		.1	.8	1.7	2.0	1.6	.4	.4	.4	.7	.3		8.3
<u>Hartline</u>													
Precip.	1.1	.9	.7	.8	1.1	1.3	.4	.3	.5	1.0	1.3	1.6	11.0
PET			.7	1.8	3.4	4.4	5.9	5.0	3.3	1.6	.2		26.3
Ea(6)			.7	1.6	2.4	2.4	1.4	.7	.6	1.0	.2		11.0
<u>Ruff 3SW</u>													
Precip.	1.2	.9	.8	.5	.9	1.1	.4	.2	.4	1.0	1.1	1.6	10.1
PET			.8	2.0	3.3	4.4	5.7	5.0	3.3	1.6	.3		26.4
Ea(6)			.8	1.9	2.2	2.1	1.0	.4	.4	1.0	.3		10.1
<u>KITTITAS COUNTY</u>													
<u>Ellensburg Airport</u>													
Precip.	1.2	.8	.6	.4	.5	.7	.1	.2	.5	.7	1.3	1.5	8.5
PET			.8	1.8	3.1	4.2	5.4	4.8	3.0	1.6	.3		25.0
Ea(6)			.8	1.3	1.7	1.7	.9	.5	.6	.7	.3		8.5
<u>Lake CleElum</u>													
Precip.	6.0	4.4	3.7	1.5	1.4	1.1	.4	.4	1.2	3.4	5.7	7.0	36.2
PET			.5	1.5	2.7	3.7	4.8	4.4	3.0	1.6	.3		22.5
Ea(6)			.5	1.5	2.7	2.7	2.0	1.1	1.4	1.6	.3		13.8
<u>Lake Kachess</u>													
Precip.	8.7	6.9	5.8	2.7	2.2	1.9	.7	.7	1.9	5.1	7.9	10.4	54.9
PET			.4	1.4	2.6	3.6	4.7	4.3	2.9	1.6	.3		21.8
Ea(6)			.4	1.4	2.6	3.3	2.8	1.7	2.1	1.6	.3		16.2
<u>KLICKITAT COUNTY</u>													
<u>Bickleton</u>													
Precip.	1.4	1.6	1.0	.7	.7	1.0	.2	.2	.3	1.1	1.6	2.2	12.0
PET		.3	.6	1.6	2.9	3.9	5.1	4.6	3.2	1.7	.4		24.3
Ea(6)		.3	.6	1.6	2.3	2.4	1.4	.7	.5	1.1	.4		11.3
<u>Goldendale</u>													
Precip.	2.9	2.0	1.6	.8	.8	1.0	.2	.2	.6	1.7	2.6	3.2	17.6
PET		.2	.9	1.8	3.0	3.9	4.9	4.4	3.0	1.7	.5		24.3
Ea(6)		.2	.9	1.8	2.4	2.3	1.4	.7	.7	1.7	.5		12.6
<u>Mt. Adams R.S.</u>													
Precip.	8.8	6.5	5.0	2.3	1.6	1.4	.2	.4	1.3	4.3	7.6	10.0	49.4
PET		.3	.7	1.7	2.9	3.2	4.8	4.2	2.9	1.6	.7		23.0
Ea(6)		.3	.7	1.7	2.9	2.6	2.1	1.2	1.5	1.6	.7		15.3
<u>YAKIMA COUNTY</u>													
<u>Bumping Lake</u>													
Precip.	7.7	6.2	4.6	2.2	1.8	1.6	.5	.6	1.4	4.2	7.0	9.6	47.4
PET				1.0	2.3	3.1	4.1	3.8	2.7	1.4	.3		18.7
Ea(6)				1.0	2.3	2.9	.1	1.6	1.7	1.4	.3		13.6
<u>Rimrock Tieton Dam</u>													
Precip.	4.3	2.9	2.4	1.1	1.0	1.1	.3	.5	.7	2.3	4.2	5.5	26.3
PET			.4	1.3	2.6	3.5	4.6	4.0	2.8	1.6	.3		21.1
Ea(6)			.4	1.3	2.4	2.6	1.8	1.1	.9	1.6	.3		12.4
<u>Wapato</u>													
Precip.	1.0	.7	.5	.4	.5	.8	.2	.2	.3	.6	.9		7.2
PET		.2	1.0	2.1	3.7	4.8	6.1	5.3	3.4	1.7	.4	.1	28.8
Ea(6)		.2	1.0	1.5	1.4	1.2	.3	.2	.3	.6	.4	.1	7.2
<u>Yakima</u>													
Precip.	.9	.8	.5	.4	.5	.8	.2	.2	.4	.6	1.0	1.1	7.2
PET		.1	1.0	2.0	3.6	4.6	5.7	4.9	3.0	1.6	.4		26.9
Ea(6)		.1	1.0	1.5	1.5	1.1	.4	.2	.4	.6	.4		7.2

* Precip.- Average precipitation. PET - Potential Evapotranspiration
Ea(6) - Actual evapotranspiration for soil water capacity of 6 inches.

Reference #1

Laucks ⁸⁶ _{years} Testing Laboratories, Inc.

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Chemistry, Microbiology, and Technical Services

CLIENT: Yakima Health District
104 N. 1st St.
Yakima, WA 98901

Certificate of Analysis

Work Order# : 94-05-548
DATE RECEIVED : 05/12/94
DATE OF REPORT: 06/07/94

ATTN : Ted Silvestri or Art

Work ID : Carlos Motors
Taken By : Client
Transported by: Pony Exp 14953326
Type : Soil/Sludge

SAMPLE IDENTIFICATION:

	Sample Description	Collection Date
01	CM2V	05/11/94 10:30
02	CM2	05/11/94 10:35
03	CM3	05/11/94 10:45

GENERAL COMMENTS ON ANTIMONY DETERMINATIONS:

The long-term trend at Laucks has consistently demonstrated antimony recoveries in soil matrix spikes and matrix spike duplicates hovering near 20%. Substantial efforts have been made to investigate the cause of these poor recoveries. We have concluded that laboratory performance is not the central issue, but that the lack of recovery is in fact inherent to the digestion method. As there are no other accepted methods for the preparation of soils for antimony, we are limited in what steps we can take to correct the situation.

When evaluating antimony data, please be aware that because antimony MS/MSD recoveries are consistently biased low in soils and sediments, it is likely that soil sample results are similarly biased.

COMMENTS ON SEMI-VOLATILE (METHOD 8270) ANALYSIS:

Samples 9405548-02 and -03 were extracted at the medium level of 1g instead of the low level of 30g due to the high level of hydrocarbons in the samples. The hydrocarbon patterns produced resemble motor oil.

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Certificate of Analysis

Work Order# : 94-05-548

COMMENTS ON VOLATILE (METHOD 8240) ANALYSIS:

The method blank (B051894MV0S01) associated with sample -01 yielded low level amounts of two common laboratory solvents; acetone and methylene chloride. These amounts are well within the laboratory control limits for an acceptable method blank, but due to the dilution factor (1:50) they appear to have been detected at much higher levels.

COMMENTS ON MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS:

The RPD of mercury was out on control because of sample inhomogeneity. Since all other indicators were within control, no further action was taken.

MS/MSD recoveries of selenium was attributed to matrix interference. Presence of unknown constituents in the sample will occasionally interfere with our ability to detect target compounds at a more sensitive level, or will mask or enhance the measurement of spiking compound concentrations.

ATTACHMENTS:

Following presentation of sample results, the following appendices are attached to this report:

- Appendix A: Method Blank and Surrogate Recoveries Report
- Appendix B: MS/MSD and Duplicate Report
- Appendix C: Blank Spike Recovery Report
- Appendix D: Chain-of-Custody

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Chemistry, Microbiology, and Technical Services

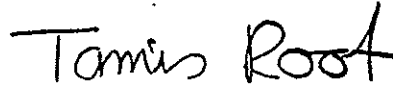
CLIENT : Yakima Health District

Certificate of Analysis

Work Order# : 94-05-548

Unless otherwise instructed all samples will be discarded on 07/10/94

Respectfully submitted,
TR Applied Science, Inc.



Tamis Root
Director

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Chemistry, Microbiology, and Technical Services

USING OUR REPORTS

Laucks uses an electronic Laboratory Information Management System that produces both our reports and invoices. The following information and definitions will help you understand our reports, and we encourage you to call us if your questions are not answered here.

SAMPLE IDENTIFICATION - Sample IDs are recorded as they appear on your sample containers or chain-of-custody documents.

TEST RESULTS - Analyses that result in a single data point are shown in alphabetical order in the body of the report. Tests that yield multiple results are generally reported on separate pages, on a sample-by-sample basis.

MEASUREMENT UNITS - The reporting units are shown to the right of the analyte name. In the event that a different unit was more appropriate to a specific sample, that exception is shown immediately beneath the test result. Units commonly employed are mg/kg (solids) or mg/L (liquids), comparable to parts per million; ug/kg (solids) or ug/L (liquids), comparable to parts per billion; and percent (%).

METHODS OF ANALYSIS - The EPA or Standard Methods method number is shown in parentheses after the analyte name when field size allows; or, for analyses that yield multiple data points, in the header information on the individual report page.

ABBREVIATIONS - Several abbreviations can appear in our reports. The most commonly employed abbreviations are:

- U : The analyte of interest was not detected, to the limit of detection indicated.
- B : The analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The B flag is applied without regard to the relative concentrations detected in the blank and sample.
- J : The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.
- T : The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

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Chemistry, Microbiology, and Technical Services

- E : The flagged value was reported from an analysis which exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.
- D : The value reported derives from analysis of a diluted sample or sample extract.
- P : When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the lower value.
- C : The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial or confirmatory (GC/MS) analysis. See specific report comments for details.
- SDL : Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.
- PQL : Practical Quantitation Limit. This limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.
- CRQL : Client Requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.
- DB : Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.
- AR : As-Received. The value has NOT been normalized for moisture.

Other abbreviations, used in special applications, are defined where they appear.

DISPOSAL DATE - Our reports now include the date on which we will dispose of your samples. (In limited instances, we may require that the samples be returned to your custody.) If you wish to have the samples back, or would like to have them stored for a longer period, please notify us before the disposal date.

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Chemistry, Microbiology, and Technical Services

CLIENT : Yakima Health District

Certificate of Analysis

Work Order # 94-05-548

TESTS PERFORMED AND RESULTS:

Analyte	Units	<u>01</u>	<u>02</u>	<u>03</u>
Antimony (Method 7041)	mg/kg DB		4.8	0.7
Arsenic (Method 7061)	mg/kg DB		9.3	2.6
Beryllium (Method 6010)	mg/kg DB		< 0.9	< 0.6
Cadmium (Method 6010)	mg/kg DB		17.	< 1.2
Chromium (Method 6010)	mg/kg DB		75.	8.6
Copper (Method 6010)	mg/kg DB		500.	36.
Lead (Method 6010)	mg/kg DB		2300.	620.
Mercury (Method 7471)	mg/kg DB		0.4	< 0.1
Nickel (Method 6010)	mg/kg DB		48.	10.
Selenium (Method 7741)	mg/kg DB		0.9	0.6 U
Silver (Method 6010)	mg/kg DB		< 1.8	< 1.2
Thallium (Method 7841)	mg/kg DB		0.4 U	0.2 U
Total Solids	%	59.7	54.2	86.4
Zinc (Method 6010)	mg/kg DB		1600.	570.

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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9405548-01A
Client Sample ID: CM2V

Collection Date : 05/11/94
Date Received : 05/12/94
Date Analyzed : 05/19/94
Date Confirmed : 05/26/94

Test Code : 8240_S
Test Method : SW 8240
Report Units : ug/kg DB

Analyte	Result	SDL
Dichlorodifluoromethane ...	210 U	210
Chloromethane	210 U	210
Vinyl chloride	210 U	210
Bromomethane	210 U	210
Chloroethane	420 U	420
Trichlorofluoromethane	1000 U	1000
Acrolein	420 U	420
1,1-Dichloroethene	210 U	210
Acetone	3600 B ²	1300
Carbon disulfide	210 U	210
Methylene chloride	730 B ²	210
Acrylonitrile	210 U	210
trans-1,2-Dichloroethene ..	210 U	210
1,1-Dichloroethane	210 U	210
Vinyl acetate	210 U	210
cis-1,2-Dichloroethene	210 U	210
2-Butanone	420 U	420
Chloroform	210 U	210
1,1,1-Trichloroethane	210 U	210
Carbon tetrachloride	210 U	210

Analyte	Result	SDL
Benzene	210 U	210
1,2-Dichloroethane.....	210 U	210
Trichloroethene	210 U	210
1,2-Dichloropropane	210 U	210
Bromodichloromethane	210 U	210
2-Chloroethyl vinyl ether .	1000 U	1000
cis-1,3-Dichloropropene ...	210 U	210
4-Methyl-2-pentanone	210 U	210
Toluene	10000 B ²	210
trans-1,3-Dichloropropene .	210 U	210
1,1,2-Trichloroethane	210 U	210
Tetrachloroethene	210 U	210
2-Hexanone	210 U	210
Dibromochloromethane	210 U	210
Chlorobenzene	210 U	210
Ethylbenzene	210 U	210
m,p-Xylenes	210 U	210
o-Xylene	210 U	210
Styrene	210 U	210
Bromoform	210 U	210
1,1,2,2-Tetrachloroethane .	210 U	210

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Chemistry, Microbiology, and Technical Services

Surrogate recovery report for sample 9405548-01A

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
d4-1,2-Dichloroethane	106	76	121
d8-Toluene	99	74	128
p-Bromofluorobenzene	101	72	118

* = Indicates that recovery is outside control limits

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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9405548-02
 Client Sample ID: CM2

Date Collected: 05/11/94
 Date Received : 05/12/94

----- WTPH-HCID -----

Preparation Date: 05/13/94
 Analysis Date : 05/14/94

	Result	
Gasoline Range Hydrocarbons...	>20	mg/kg AR
Diesel Range Hydrocarbons.....	>50	mg/kg AR
Lube Oil and Related Products.	>100	mg/kg AR

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene	72	50	150
2-Fluorobiphenyl	159*	50	150
p-Terphenyl	4100*	50	150

Comments: High surrogate recoveries due to matrix. A partial gasoline pattern is present. Some diesel peaks are present. The majority of the response is a result of heavy oil range hydrocarbons eluting into the diesel range.

Analysis performed in accordance with Washington State Department of Ecology method WTPH-HCID.

Key: < = Result is less than WTPH-HCID screening level.
 > = Result exceeded WTPH-HCID screening level.
 AR = As received.

If result exceeds the screening level it is recommended that the appropriate quantitative analysis be performed.

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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9405548-03
 Client Sample ID: CM3

Date Collected: 05/11/94
 Date Received : 05/12/94

----- WTPH-HCID -----

Preparation Date: 05/13/94
 Analysis Date : 05/14/94

	Result	
Gasoline Range Hydrocarbons...	>20	mg/kg AR
Diesel Range Hydrocarbons.....	>50	mg/kg AR
Lube Oil and Related Products.	>100	mg/kg AR

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene	46*	50	150
2-Fluorobiphenyl	67	50	150
p-Terphenyl	0*	50	150

Comments: A partial gasoline pattern is present. The diesel range is obscured by heavy oil range hydrocarbons. Out of control surrogate recoveries are due to matrix interference.

Analysis performed in accordance with Washington State Department of Ecology method WTPH-HCID.

Key: < = Result is less than WTPH-HCID screening level.
 > = Result exceeded WTPH-HCID screening level.
 AR = As received.

If result exceeds the screening level it is recommended that the appropriate quantitative analysis be performed.

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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9405548-03B
Client Sample ID: CM3

Collection Date : 05/11/94
Date Received : 05/12/94

Date Extracted : 05/13/94
Date Analyzed : 05/18/94
Date Confirmed : 05/18/94

Test Code : 8080AS
Test Method : SW 8080
Extraction Method : SW 3550

Analyte	Result		SDL
	(ug/kg DB)		(ug/kg DB)
Aroclor-1016	1100	U	1100
Aroclor-1221	2300	U	2300
Aroclor-1232	1100	U	1100
Aroclor-1242	1100	U	1100
Aroclor-1248	1100	U	1100
Aroclor-1254	1100	U	1100
Aroclor-1260	1100	U	1100

Surrogate recovery report for sample 9405548-038

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
Isodrin	44	20	150
Tetrachloro-m-xylene	64	20	150
Decachlorobiphenyl	77	20	160

* = Indicates that recovery is outside control limits

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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9405548-02B

Client Sample ID: CM2

Collection Date : 05/11/94

Date Received : 05/12/94

Date Extracted : 05/13/94

Date Analyzed : 05/17/94

Test Code : LXCSS

Test Method : SW8270

Extraction Method : SW3550

Analyte	Result (ug/kg DB)	SDL (ug/kg DB)	Analyte	Result (ug/kg DB)	SDL (ug/kg DB)
Phenol	9200 U	9200	3-Nitroaniline	46000 U	46000
Aniline	46000 U	46000	Acenaphthene	9200 U	9200
Bis(2-chloroethyl)ether	9200 U	9200	2,4-Dinitrophenol	92000 U	92000
2-Chlorophenol	9200 U	9200	4-Nitrophenol	92000 U	92000
1,3-Dichlorobenzene	9200 U	9200	Dibenzofuran	9200 U	9200
1,4-Dichlorobenzene	9200 U	9200	2,4-Dinitrotoluene	18000 U	18000
Benzyl alcohol	9200 U	9200	Diethyl phthalate	9200 U	9200
1,2-Dichlorobenzene	9200 U	9200	4-Chlorophenyl phenylether	9200 U	9200
2-Methylphenol	9200 U	9200	Fluorene	9200 U	9200
Bis(2-chloroisopropyl)ether	9200 U	9200	4-Nitroaniline	18000 U	18000
4-Methylphenol	13000	9200	4,6-Dinitro-2-methylphenol	92000 U	92000
N-Nitroso-di-n-propylamine	9200 U	9200	N-Nitrosodiphenylamine	9200 U	9200
Hexachloroethane	18000 U	18000	1,2-Diphenylhydrazine	18000 U	18000
Nitrobenzene	9200 U	9200	4-Bromophenyl phenylether	18000 U	18000
Isophorone	9200 U	9200	Hexachlorobenzene	18000 U	18000
2-Nitrophenol	18000 U	18000	Pentachlorophenol	92000 U	92000
2,4-Dimethylphenol	9200 U	9200	Phenanthrene	4800 U	9200
Benzoic acid	230000 U	230000	Anthracene	9200 U	9200
Bis(2-chloroethoxy)methane	9200 U	9200	Carbazole	9200 U	9200
2,4-Dichlorophenol	18000 U	18000	Di-n-butyl phthalate	9200 U	9200
1,2,4-Trichlorobenzene	9200 U	9200	Fluoranthene	2500 U	9200
Naphthalene	4200 U	9200	Pyrene	4200 U	9200
4-Chloroaniline	9200 U	9200	Benzidine	230000 U	230000
Hexachlorobutadiene	9200 U	9200	Butylbenzylphthalate	9200 U	9200
4-Chloro-3-methylphenol	18000 U	18000	3,3'-Dichlorobenzidine	92000 U	92000
2-Methylnaphthalene	13000	9200	Benzo(a)anthracene	9200 U	9200
Hexachlorocyclopentadiene	18000 U	18000	Chrysene	9200 U	9200
2,4,6-Trichlorophenol	18000 U	18000	Bis(2-ethylhexyl)phthalate	170000	9200
2,4,5-Trichlorophenol	18000 U	18000	Di-n-octyl phthalate	9200 U	9200
2-Chloronaphthalene	9200 U	9200	Benzo(b)fluoranthene	9200 U	9200
2-Nitroaniline	18000 U	18000	Benzo(k)fluoranthene	9200 U	9200
Dimethyl phthalate	9200 U	9200	Benzo(a)pyrene	9200 U	9200
Acenaphthylene	9200 U	9200	Indeno(1,2,3-cd)pyrene	9200 U	9200
2,6-Dinitrotoluene	18000 U	18000	Dibenzo(a,h)anthracene	9200 U	9200
			Benzo(g,h,i)perylene	9200 U	9200

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Chemistry, Microbiology, and Technical Services

GC/MS ABN surrogate recovery report for sample 9405548-02B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
2-Fluorophenol	69	33	115
d5-Phenol	73	45	112
d4-2-Chlorophenol ...	75	41	110
d5-Nitrobenzene	63	38	117
2-Fluorobiphenyl	85	47	124
d4-1,2-Dichlorobenzene	78	43	118
2,4,6-Tribromophenol	90	30	136
d14-p-Terphenyl	81	51	135

* = Surrogate recovery outside control limits

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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9405548-03B

Client Sample ID: CM3

Collection Date : 05/11/94

Date Received : 05/12/94

Date Extracted : 05/13/94

Date Analyzed : 05/17/94

Test Code : LXCSS

Test Method : SW8270

Extraction Method : SW3550

Analyte	Result (ug/kg DB)	SDL (ug/kg DB)	Analyte	Result (ug/kg DB)	SDL (ug/kg DB)
Phenol	5800 U	5800	3-Nitroaniline	29000 U	29000
Aniline	29000 U	29000	Acenaphthene	5800 U	5800
Bis(2-chloroethyl)ether	5800 U	5800	2,4-Dinitrophenol	58000 U	58000
2-Chlorophenol	5800 U	5800	4-Nitrophenol	58000 U	58000
1,3-Dichlorobenzene	5800 U	5800	Dibenzofuran	5800 U	5800
1,4-Dichlorobenzene	5800 U	5800	2,4-Dinitrotoluene	12000 U	12000
Benzyl alcohol	5800 U	5800	Diethyl phthalate	5800 U	5800
1,2-Dichlorobenzene	5800 U	5800	4-Chlorophenyl phenylether	5800 U	5800
2-Methylphenol	5800 U	5800	Fluorene	5800 U	5800
Bis(2-chloroisopropyl)ether	5800 U	5800	4-Nitroaniline	12000 U	12000
4-Methylphenol	5800 U	5800	4,6-Dinitro-2-methylphenol	58000 U	58000
N-Nitroso-di-n-propylamine	5800 U	5800	N-Nitrosodiphenylamine	5800 U	5800
Hexachloroethane	12000 U	12000	1,2-Diphenylhydrazine	12000 U	12000
Nitrobenzene	5800 U	5800	4-Bromophenyl phenylether ..	12000 U	12000
Isophorone	5800 U	5800	Hexachlorobenzene	12000 U	12000
2-Nitrophenol	12000 U	12000	Pentachlorophenol	58000 U	58000
2,4-Dimethylphenol	5800 U	5800	Phenanthrene	11000	5800
Benzoic acid	140000 U	140000	Anthracene	5800 U	5800
Bis(2-chloroethoxy)methane	5800 U	5800	Carbazole	5800 U	5800
2,4-Dichlorophenol	12000 U	12000	Di-n-butyl phthalate	4500 J	5800
1,2,4-Trichlorobenzene	5800 U	5800	Fluoranthene	3700 J	5800
Naphthalene	5800 U	5800	Pyrene	12000	5800
4-Chloroaniline	5800 U	5800	Benzidine	140000 U	140000
Hexachlorobutadiene	5800 U	5800	Butylbenzylphthalate	5800 U	5800
4-Chloro-3-methylphenol	12000 U	12000	3,3'-Dichlorobenzidine	58000 U	58000
2-Methylnaphthalene	5800	5800	Benzo(a)anthracene	5800 U	5800
Hexachlorocyclopentadiene ..	12000 U	12000	Chrysene	5800 U	5800
2,4,6-Trichlorophenol	12000 U	12000	Bis(2-ethylhexyl)phthalate	58000	5800
2,4,5-Trichlorophenol	12000 U	12000	Di-n-octyl phthalate	5800 U	5800
2-Chloronaphthalene	5800 U	5800	Benzo(b)fluoranthene	5800 U	5800
2-Nitroaniline	12000 U	12000	Benzo(k)fluoranthene	5800 U	5800
Dimethyl phthalate	5800 U	5800	Benzo(a)pyrene	5800 U	5800
Acenaphthylene	5800 U	5800	Indeno(1,2,3-cd)pyrene	5800 U	5800
2,6-Dinitrotoluene	12000 U	12000	Dibenzo(a,h)anthracene	5800 U	5800
			Benzo(g,h,i)perylene	5800 U	5800

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GC/MS ABN surrogate recovery report for sample 9405548-03B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
2-Fluorophenol	65	33	115
d5-Phenol	67	45	112
d4-2-Chlorophenol ...	71	41	110
d5-Nitrobenzene	61	38	117
2-Fluorobiphenyl	74	47	124
d4-1,2-Dichlorobenzene	77	43	118
2,4,6-Tribromophenol	84	30	136
d14-p-Terphenyl	105	51	135

* = Surrogate recovery outside control limits

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APPENDIX A

Method Blank and Method Blank Surrogate Recoveries Report

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Chemistry, Microbiology, and Technical Services

Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
B051794_GF_S01	2-3	Antimony by Furnace AA	0.30 U	mg/kg DB	0.60
B051794_ICP_S01	2-3	Lead by ICP	10 U	mg/kg DB	20
		Copper by ICP	1.0 U		2.0
		Silver by ICP	1.0 U		2.0
		Beryllium by ICP	0.50 U		1.0
		Nickel by ICP	2.0 U		4.0
		Zinc by ICP	1.0 U		5.0
		Cadmium by ICP	0.50 U		1.0
		Chromium by ICP	1.0 U		2.0
		Arsenic by ICP	20 U		40
		Aluminum by ICP	10 U		50
		Barium by ICP	2.0 U		4.0
		Calcium by ICP	100 U		200
		Cobalt by ICP	2.0 U		4.0
		Iron by ICP	10 U		50
		Mercury by ICP	25 U		50
		Potassium by ICP	100 U		200
		Magnesium by ICP	100 U		200
		Manganese by ICP	2.0 U		4.0
		Sodium by ICP	100 U		200
		Antimony by ICP	6.0 U		12
		Selenium by ICP	20 U		40
		Vanadium by ICP	5.0 U		10
B052094_HG_W01	2-3	Mercury by Cold Vapor	0.0010 U	mg/L	0.0020
B052394_GF_S01	2-3	Thallium by Furnace AA	0.20 U	mg/kg DB	0.40
B052394_GF_W01	2-3	Thallium by Furnace AA	0.0020 U	mg/L	0.0040
B052394_HY_S01	2,3	Arsenic by gaseous hydride AA	0.50 U	mg/kg DB	1.0
		Selenium by Gaseous Hydride AA	0.50 U		1.0
B051393_MSV_S01	2,3	Phenol	1000 U	ug/kg	1000
		Aniline	5000 U		5000

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Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
		Bis(2-chloroethyl)ether	1000 U		1000
		2-Chlorophenol	1000 U		1000
		1,3-Dichlorobenzene	1000 U		1000
		1,4-Dichlorobenzene	1000 U		1000
		Benzyl Alcohol	1000 U		1000
		1,2-Dichlorobenzene	1000 U		1000
		2-Methylphenol	1000 U		1000
		Bis(2-chloroisopropyl)ether	1000 U		1000
		4-Methylphenol	1000 U		1000
		N-Nitroso-di-n-propylamine	1000 U		1000
		Hexachloroethane	2000 U		2000
		Nitrobenzene	1000 U		1000
		Isophorone	1000 U		1000
		2-Nitrophenol	1000 U		1000
		2,4-Dimethylphenol	1000 U		1000
		Benzoic Acid	25000 U		25000
		Bis(2-chloroethoxy)methane	1000 U		1000
		2,4-Dichlorophenol	2000 U		2000
		1,2,4-Trichlorobenzene	1000 U		1000
		Naphthalene	1000 U		1000
		4-Chloroaniline	1000 U		1000
		Hexachlorobutadiene	1000 U		1000
		4-Chloro-3-Methylphenol	2000 U		2000
		2-Methylnaphthalene	1000 U		1000
		Hexachlorocyclopentadiene	2000 U		2000
		2,4,6-Trichlorophenol	2000 U		2000
		2,4,5-Trichlorophenol	2000 U		2000
		2-Chloronaphthalene	1000 U		1000
		2-Nitroaniline	2000 U		2000
		Dimethyl phthalate	1000 U		5000

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Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
		Acenaphthylene	1000 U		1000
		2,6-Dinitrotoluene	2000 U		2000
		3-Nitroaniline	5000 U		5000
		Acenaphthene	1000 U		1000
		2,4-Dinitrophenol	10000 U		10000
		4-Nitrophenol	10000 U		10000
		Dibenzofuran	1000 U		1000
		2,4-Dinitrotoluene	2000 U		2000
		Diethyl phthalate	1000 U		5000
		4-Chlorophenyl phenylether	1000 U		1000
		Fluorene	1000 U		1000
		4-Nitroaniline	2000 U		2000
		4,6-Dinitro-2-methylphenol	10000 U		10000
		N-Nitrosodiphenylamine	1000 U		1000
		1,2-Diphenylhydrazine	2000 U		2000
		4-Bromophenyl phenyl ether	2000 U		2000
		Hexachlorobenzene	2000 U		2000
		Pentachlorophenol	10000 U		10000
		Phenanthrene	1000 U		1000
		Anthracene	1000 U		1000
		Di-n-butyl phthalate	1000 U		50000
		Fluoranthene	1000 U		1000
		Pyrene	1000 U		1000
		Benzidine	25000 U		25000
		Butylbenzylphthalate	1000 U		5000
		3,3'-Dichlorobenzidine	10000 U		10000
		Benzo(a)anthracene	1000 U		1000
		Chrysene	1000 U		1000
		Bis(2-ethylhexyl) phthalate	1000 U		50000
		Di-n-octyl phthalate	1000 U		5000

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Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
		Benzo(b)fluoranthene	1000 U		1000
		Benzo(k)fluoranthene	1000 U		1000
		Benzo(a)pyrene	1000 U		1000
		Indeno(1,2,3-cd)pyrene	1000 U		1000
		Dibenzo(a,h)anthracene	1000 U		1000
		Benzo(g,h,i)perylene	1000 U		1000
		Carbazole	1000 U		1000
B051394_GPX_S03	02	Aroclor-1016	33 U	ug/kg	33
		Aroclor-1221	67 U		67
		Aroclor-1232	33 U		33
		Aroclor-1242	33 U		33
		Aroclor-1248	33 U		33
		Aroclor-1254	33 U		33
		Aroclor-1260	33 U		33
B051394_GPX_S04	03	Aroclor-1016	33 U	ug/kg	33
		Aroclor-1221	67 U		67
		Aroclor-1232	33 U		33
		Aroclor-1242	33 U		33
		Aroclor-1248	33 U		33
		Aroclor-1254	33 U		33
		Aroclor-1260	33 U		33
B051394_GPX_S05	3	Aroclor-1016	990 U	ug/kg	990
		Aroclor-1221	2000 U		2000
		Aroclor-1232	990 U		990
		Aroclor-1242	990 U		990
		Aroclor-1248	990 U		990
		Aroclor-1254	990 U		990
		Aroclor-1260	990 U		990
B051394_GSV_S01	2,3	Gasoline Range Hydrocarbons	20 U	mg/kg	20
		Diesel Range Hydrocarbons	50 U		50

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Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
B051894_MVO_S01	1	Heavy Hydrocarbons	100 U		100
		Dichlorodifluoromethane	120 U	ug/kg	120
		Chloromethane	120 U		120
		Vinyl chloride	120 U		120
		Bromomethane	120 U		120
		Chloroethane	250 U		250
		Trichlorofluoromethane	620 U		620
		Acrolein	250 U		250
		1,1-Dichloroethene	120 U		120
		Acetone	1900 U		3800
		Carbon disulfide	120 U		120
		Methylene chloride	160 U		620
		Acrylonitrile	120 U		120
		trans-1,2-Dichloroethene	120 U		120
		1,1-Dichloroethane	120 U		120
		Vinyl acetate	120 U		120
		cis-1,2-Dichloroethene	120 U		120
		2-Butanone	250 U		250
		Chloroform	120 U		120
		1,1,1-Trichloroethane	120 U		120
		Carbon tetrachloride	120 U		120
		Benzene	120 U		120
		1,2-Dichloroethane	120 U		120
		Trichloroethene	120 U		120
		1,2-Dichloropropane	120 U		120
		Bromodichloromethane	120 U		120
		2-Chloroethyl vinyl ether	620 U		620
cis-1,3-Dichloropropene	120 U		120		
4-Methyl-2-pentanone	120 U		120		
Toluene	120 U		120		

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Quality Control Report Method Blanks for Work Order 9405548

Blank Name	Samples Verified	Test Description	Result	Units	Control Limit
		trans-1,3-Dichloropropene	120 U		120
		1,1,2-Trichloroethane	120 U		120
		Tetrachloroethene	120 U		120
		2-Hexanone	120 U		120
		Dibromochloromethane	120 U		120
		Chlorobenzene	120 U		120
		Ethylbenzene	120 U		120
		m,p-Xylenes	120 U		120
		o-Xylene	120 U		120
		Styrene	120 U		120
		Bromoform	120 U		120
		1,1,2,2-Tetrachloroethane	120 U		120

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Chemistry, Microbiology, and Technical Services

Quality Control Report
Multi-Component Method Blanks
Surrogate Recoveries for Work Order 9405548

Blank Name	Test Description	Surrogate Compound	Recov	LCL	UCL
B051393_HSV_S01	GC/MS ABNs, LTL surrogate limits	2-Fluorophenol	57	33	115
		d5-Phenol	62	45	112
		d4-2-Chlorophenol	60	41	110
		d5-Nitrobenzene	56	38	117
		2-Fluorobiphenyl	61	47	124
		d4-1,2-Dichlorobenzene	60	43	118
		2,4,6-Tribromophenol	74	30	136
		d14-p-Terphenyl	82	51	135
B051394_GPX_S03	Organochlorine PCBs in Soil	Isodrin	85	20	150
		Tetrachloro-m-xylene	78	20	150
		Decachlorobiphenyl	101	20	160
B051394_GPX_S04	Organochlorine PCBs in Soil	Isodrin	58	20	150
		Tetrachloro-m-xylene	61	20	150
		Decachlorobiphenyl	76	20	160
B051394_GPX_S05	Organochlorine PCBs in Soil	Isodrin	58	20	150
		Tetrachloro-m-xylene	61	20	150
		Decachlorobiphenyl	76	20	160
B051394_GSV_S01	WTPH HCID in soil	Bromofluorobenzene	86	50	150
		2-Fluorobiphenyl	94	50	150
		p-Terphenyl	94	50	150
B051894_MVO_S01	GC/MS VOA EPA 8240	d4-1,2-Dichloroethane	99	76	121
		d8-Toluene	102	74	128
		p-Bromofluorobenzene	100	72	118

* = Recovery exceeds control limit

Recov = Percent recovery of surrogate compound

LCL = Lower Control Limit

UCL = Upper Control Limit

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APPENDIX B

MS/MSD and Duplicate Report

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Quality Control Report MS/MSD Report for Work Order 9405548

MS/MSD Name	Sample Fractions Verified	MS/MSD Sample	Analyte	Percent Recovery			Cont. Limits		
				MS	MSD	RPD	LCL	UCL	RPD
K051394_GPXS02	03	9405548-03	Aroclor 1260	62	58	6	20	160	50
K051394_MSXS01	2,3	9405548-03	Phenol	64	66	4	41	109	28
			2-Chlorophenol	66	67	2	40	106	30
			1,4-Dichlorobenzene	68	72	6	34	107	36
			N-Nitroso-di-n-propylamine	89	91	3	48	118	28
			1,2,4-Trichlorobenzene	75	76	1	40	121	30
			4-Chloro-3-methylphenol	78	81	4	55	120	22
			Acenaphthene	81	83	3	41	122	42
			4-Nitrophenol	53	51	4	23	143	37
			2,4-Dinitrotoluene	70	67	4	32	127	25
			Pentachlorophenol	86	85	2	20	159	43
			Pyrene	90	112	22	25	141	50
K051794_GFS01	2-3	9405487-05	Antimony	38	37	2	30	74	30
K051794_ICPS02	2-3	9405487-05	Silver	83	85	3	58	132	30
			Arsenic	95	93	3	70	127	30
			Barium	92	89	4	61	127	20
			Beryllium	94	93	1	84	122	10
			Cadmium	90	88	2	60	138	21
			Cobalt	91	88	3	85	113	10
			Chromium	90	91	1	60	134	30
			Copper	92	89	3	50	150	30
			Mercury	86	79	8	56	110	10

* = Value Exceeds Control Limit
 RPD = Relative Percent Difference
 LCL = Lower Control Limit
 UCL = Upper Control Limit
 -1 for recovery value indicates that recovery could not be calculated

An MS/MSD pair can validate the results for more than one work order. For this reason, results for analytes not requested on this work order may appear in this MS/MSD report.

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Quality Control Report MS/MSD Report for Work Order 9405548

MS/MSD Name	Sample Fractions Verified	MS/MSD Sample	Analyte	Percent Recovery			Cont. Limits		
				MS	MSD	RPD	LCL	UCL	RPD
			Manganese	80	95	17	50	150	30
			Nickel	89	88	1	69	124	21
			Lead	93	86	7	50	148	30
			Antimony	39	37	6	30	94	30
			Selenium	88	83	5	67	129	10
			Vanadium	86	96	11	68	125	22
			Zinc	91	91	1	50	150	30
K052094_HGS01	2-3	9405749-01	Mercury	73	57 *	24	65	130	30
K052394_GFS01	2-3	9405548-03	Thallium	106	102	5	50	113	26
K052394_HYS01	2,3	9405548-03	Arsenic	102	98	4	60	128	30
			Selenium	21*	21 *	0	50	148	30
K052494_MVOS01	1	9405586-02	1,1-Dichloroethene	138	132	4	30	160	10
			Trichloroethene	113	109	4	65	146	10
			Benzene	108	107	0	63	141	10
			Toluene	108	107	1	62	148	10
			Chlorobenzene	109	107	2	61	143	10

* = Value Exceeds Control Limit
 RPD = Relative Percent Difference
 LCL = Lower Control Limit
 UCL = Upper Control Limit
 -1 for recovery value indicates that recovery could not be calculated

An MS/MSD pair can validate the results for more than one work order. For this reason, results for analytes not requested on this work order may appear in this MS/MSD report.

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Quality Control Report
Duplicate Report for Work Order 9405548

<u>Duplicate Name</u>	<u>Sample Fractions Verified</u>	<u>Sample</u>	<u>Analyte</u>	<u>RPD</u>	<u>Limit</u>
D051694_TSM09	2-3	9405508-02	Total Solids	0	30

* = Value Exceeds Control Limit

RPD = Relative Percent Difference

L = RPD control limit for this analyte is 5x the detection limit. The value appearing in the RPD column is the absolute difference of the duplicates.

-1 for recovery value indicates that recovery could not be calculated

A duplicate pair can validate the results for more than one work order. For this reason, results for analytes not requested on this work order may appear in this duplicate report.

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APPENDIX C

Blank Spike Recovery Report

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Quality Control Report Blank Spike Report for Work Order 9405548

Blank Spike Names		Fractions Verified	Analyte Name	Recov	LCL	UCL
Database	Lab Assigned					
S051394_GPXS01	S0513GPXSLS	02	Aroclor 1260	92	20	160
S051394_GPXS02	S0513GPXSMS	03	Aroclor 1260	76	20	160
S051394_GPXS04	S0513GPXSMS	03	Aroclor 1260	76	20	160
S051794_GFS01	S051794-S01	2-3	Antimony	87	50	120
S051794_ICMS01	BS0517ICPS01	2-3	Aluminum	106	50	150
			Antimony	90	50	150
			Arsenic	98	70	127
			Barium	96	61	127
			Beryllium	98	84	122
			Cadmium	96	60	138
			Chromium	101	60	134
			Cobalt	97	85	113
			Copper	95	50	150
			Iron	97	50	150
			Lead	100	50	148
			Manganese	98	50	150
			Mercury	102	56	110
			Nickel	98	69	124
			Selenium	88	67	129
			Silver	88	58	132
			Vanadium	97	68	125
			Zinc	98	50	150
S052394_GFS01	S052394-S01	2-3	Thallium	93	50	113
S052394_HYS01	BS0523FAS01	2,3	Arsenic	94	60	128
			Selenium	88	50	148

* = Value Exceeds Control Limit
LCL = Lower Control Limit
UCL = Upper Control Limit

A blank spike can validate the results for more than one work order. For this reason, results for analytes not requested on this work order may appear in this blank spike report.

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APPENDIX D

Chain-of-Custody

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