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October 15, 2005
Job No. 1058.01.02

Ms. Bonnie Rolandelli, Associate Engineering Geologist
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Monitoring Report
September 2005
44851 North Highway 101
Laytonville, California

Dear Ms. Rolandelli:
This letter presents monitoring results for September 2005. Groundwater levels were measured and water samples were taken in MW-1 through MW-13 on September 5, 2005. Groundwater levels were measured after opening the wells the day before to allow water levels to equilibrate to atmospheric pressure. Each well was purged of standing water until successive measurements of indicator parameters pH, conductivity, oxidation reduction potential, dissolved oxygen, and temperature differed by less than 5% or until the well dewatered, whichever came first. Following purging, each well was let stand for at least two hours and then sampled using a disposable bailer. The well purging and sampling record is attached.

Water level contours for September 2005 are shown on Plate 1. Hydrographs of water level elevations measured each quarter since June 2003 are shown on Plate 2. Water level depths and elevations measured each quarter since June 2003 are tabulated in Table 1.

Samples were submitted for analysis of Total Petroleum Hydrocarbons (TPH) as Diesel and TPH as Gasoline using EPA method 8015 modified; Benzene, Toluene, Ethylbenzene, and Xylenes using EPA method 8020; and fuel oxygenates Di-isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (ETBE), Methyl-tert Butyl Ether (MTBE), tert-Amyl Methyl Ether (TAME), and tert-Butanol (TB) and lead scavengers 1,2-Dibromoethane (EDB) and 1,2-Dichloroethane (1,2-DCA) using EPA method 8260. Analytical results for September 2005 are appended to historical record in Table 2. Concentration contours of TPH as Gasoline and the combined concentrations of MTBE, TAME, and TB for September 2005 are shown on Plates 3 and 4. The combined concentrations of MTBE, TAME, and TB are contoured to include TAME as an oxygenate and to include TB as a breakdown product of MTBE. Concentrations of DIPE and ETBE are below test detection limits. Concentrations of TPH as Gasoline and the sum of concentrations of MTBE, TAME, and TB versus time are shown on Plates 5 and 6.

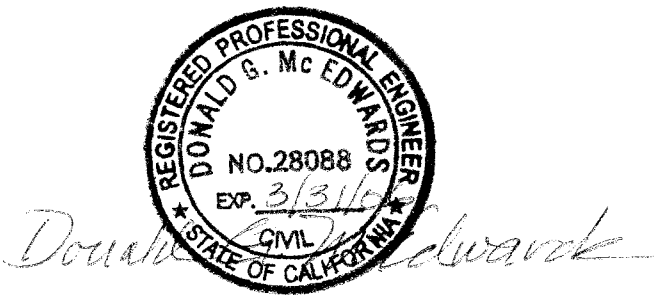
## CONCLUSIONS

Water level contours shown on Plate 1 show groundwater flow is generally westward across the site.

From the isoconcentration contours shown on Plates 3 and 4, it appears that the majority of the TPH as Gasoline and oxygenate contamination found onsite is present due to migration northward from the adjacent Chevron station at 44801 North Highway 101.

Plate 5 shows TPH as Gasoline concentrations have not declined significantly since monitoring began in April 2003. Plate 6 shows that concentrations of fuel oxygenates have declined somewhat since April 2003.

Very Truly Yours,
THE McEDWARDS GROUP




Donald G. McEdwards, PhD, CE 28088, EG 1288, HG 153
Principal Hydrogeologist

Attachments:
- Water Level Contours - 09/05/05, Plate 1
- Hydrographs of Wells, Plate 2
- TPH as Gasoline - 09/05/05, Plate 3
- Sum of MTBE, TAME, and TB - 09/05/05, Plate 4
- TPH as Gasoline versus Time, Plate 5
- Sum of MTBE, TAME, and TB versus Time, Plate 6
- Table 1 - Water Level Depths and Elevations in Wells at 44851 North Highway 101, Laytonville
- Table 2 - Analytical Results for Water Samples from Wells at 44851 North Highway 101, Laytonville
- Analytical Laboratory Report and Chain-of-Custody form
- Well Purging and Sampling Record

cc: Mr. Albert W. Repovsch, Jr.
P.O. Box 930
Laytonville, CA 95454

C:\1058\September 2005 QTR

# Water Level Contours - 09/05/05

44851 Highway 101
Laytonville, California

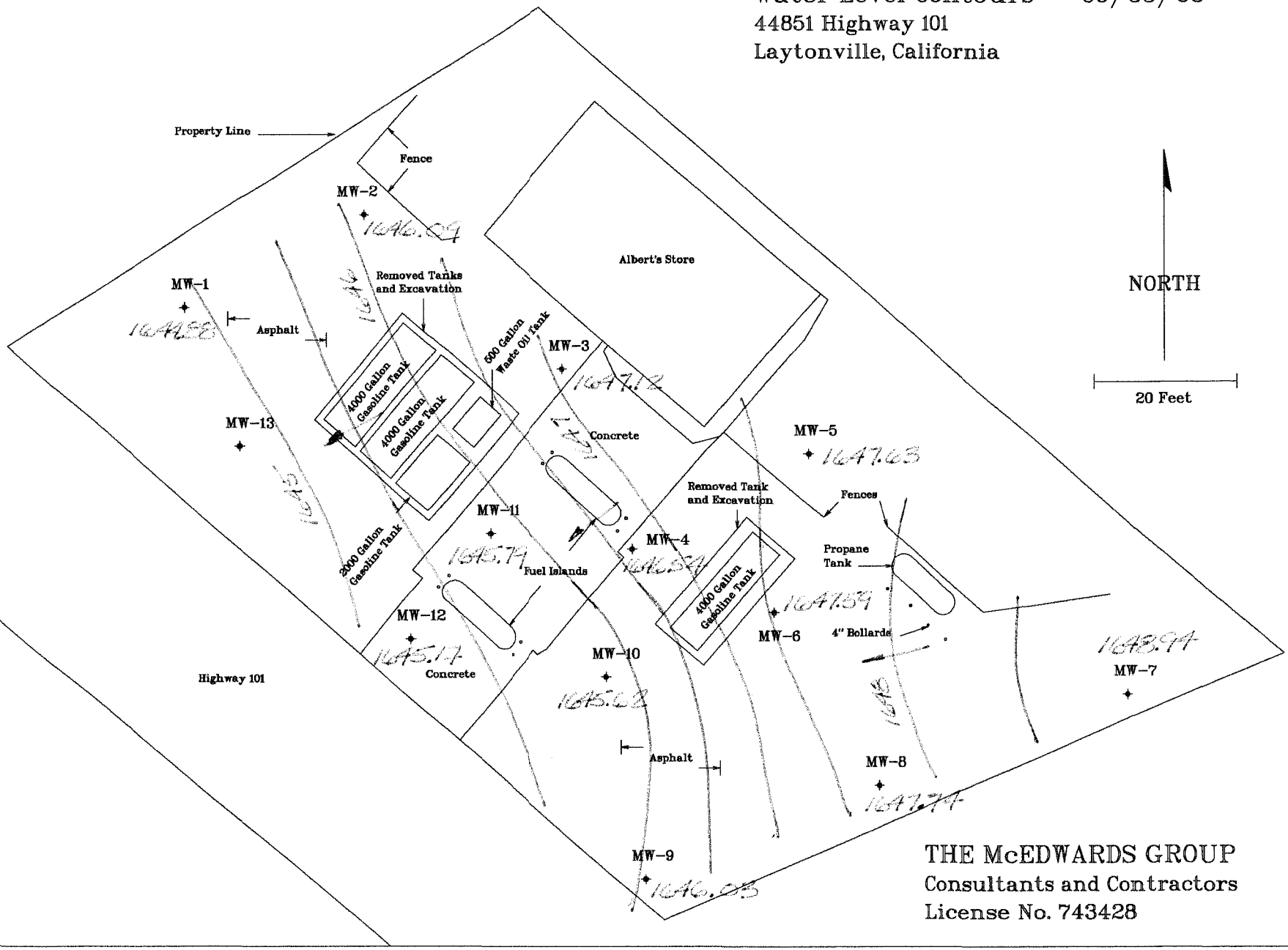



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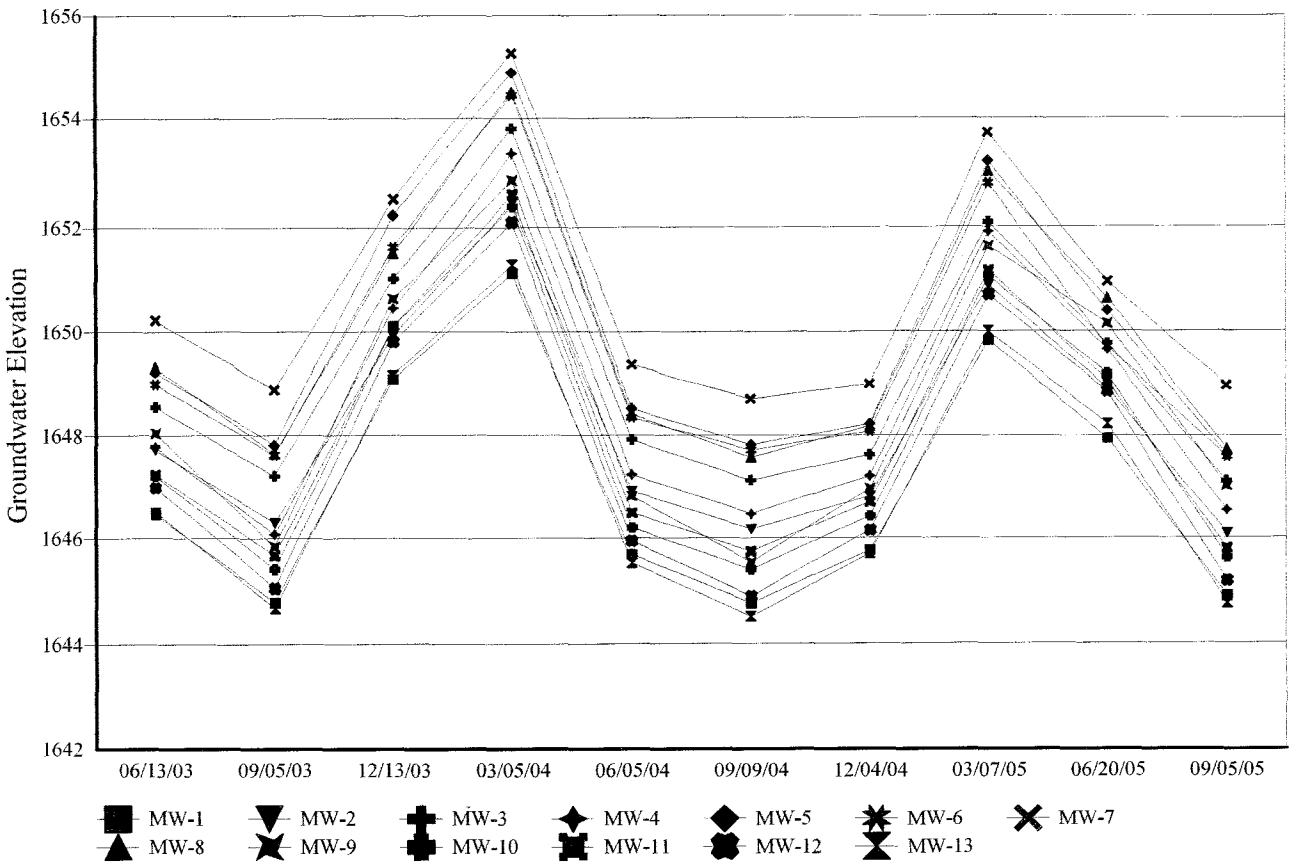
PLATE
1

Job Number: 1058.01.02

QTR.P1

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Hydrographs of Wells
44851 Highway 101
Laytonville, California

PLATE
2

Job Number: 1058.01.02

QTR.P2

# TPH as Gasoline – 09/05/05

44851 Highway 101
Laytonville, California

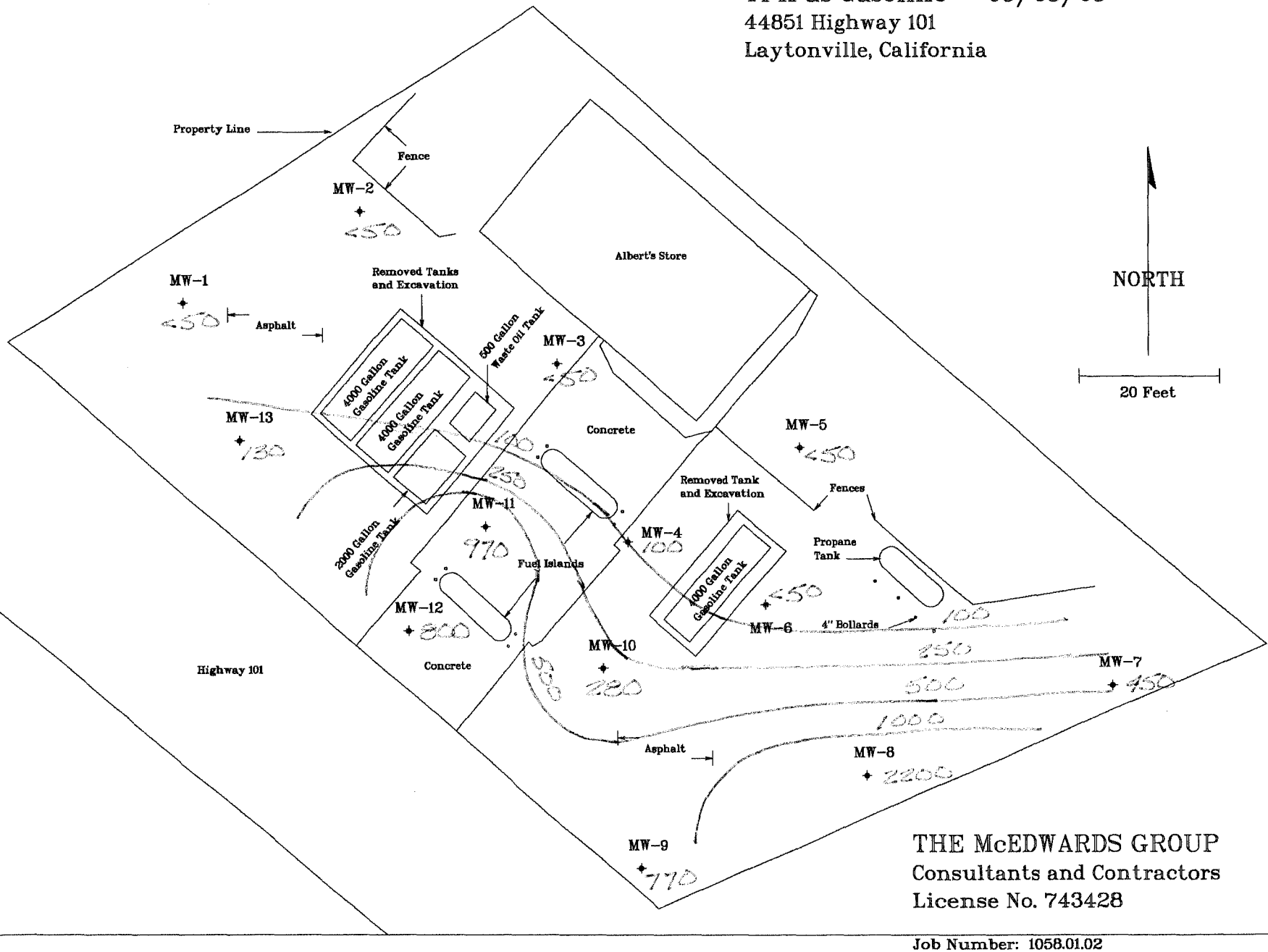


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PLATE
3

Job Number: 1058.01.02

QTR.P3

# Sum of MTBE, TAME, and TB – 09/05/05

44851 Highway 101
Laytonville, California

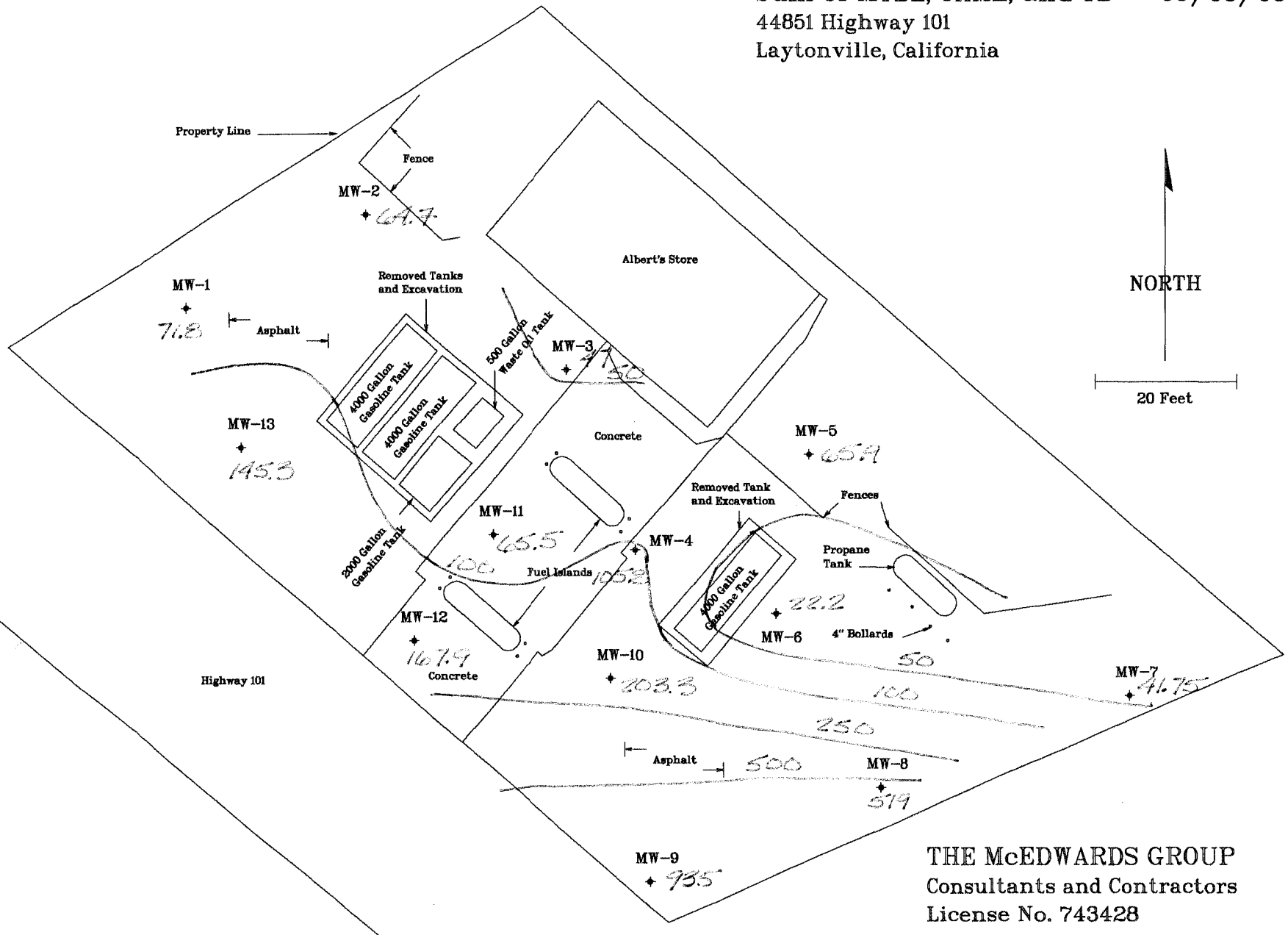


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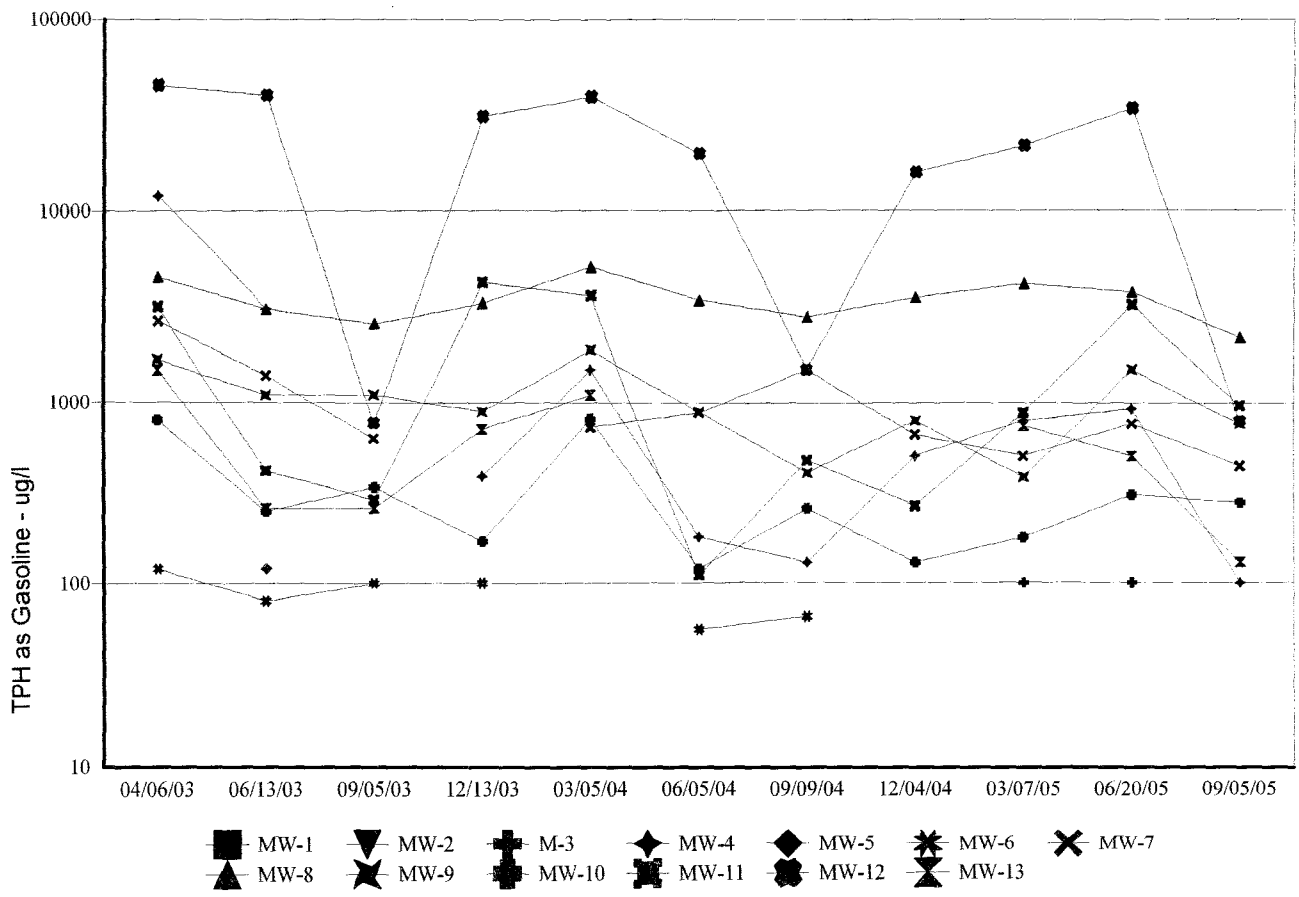
PLATE
4

Job Number: 1058.01.02

QTR.P4

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Gasoline versus Time
44851 Highway 101
Laytonville, California

PLATE
5

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Sum of MTBE, TAME, and TB versus Time
44851 Highway 101
Laytonville, California

PLATE
6

Job Number: 1058.01.02

QTR.P6

Table 1 - Water Level Depths and Elevations in Wells at 44851 North Highway 101, Laytonville

| | *Casing Elevation* | *Depth* | *Elevation 06/13/03* | *Depth* | *Elevation 09/05/03* | *Depth* | *Elevation 12/13/03* | *Depth* | *Elevation 03/05/04* | *Depth* | *Elevation 06/05/04* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MW-1*** | 1657.28 | 10.82 | 1646.46 | 12.49 | 1644.79 | 8.20 | 1649.08 | 6.17 | 1651.11 | 11.60 | 1645.68 |
| ***MW-2*** | 1657.82 | 10.09 | 1647.73 | 11.52 | 1646.30 | 7.90 | 1649.92 | 5.38 | 1652.44 | 10.90 | 1646.92 |
| ***MW-3*** | 1657.72 | 9.18 | 1648.54 | 10.49 | 1647.23 | 6.71 | 1651.01 | 3.92 | 1653.80 | 9.80 | 1647.92 |
| ***MW-4*** | 1657.40 | 9.62 | 1647.78 | 11.32 | 1646.08 | 6.96 | 1650.44 | 4.07 | 1653.33 | 10.15 | 1647.25 |
| ***MW-5*** | 1657.79 | 8.58 | 1649.21 | 9.97 | 1647.82 | 5.57 | 1652.22 | 2.90 | 1654.89 | 9.28 | 1648.51 |
| ***MW-6*** | 1657.51 | 8.53 | 1648.98 | 9.88 | 1647.63 | 5.89 | 1651.62 | 3.06 | 1654.45 | 9.17 | 1648.34 |
| ***MW-7*** | 1658.01 | 7.80 | 1650.21 | 9.13 | 1648.88 | 5.50 | 1652.51 | 2.75 | 1655.26 | 8.66 | 1649.35 |
| ***MW-8*** | 1657.37 | 8.06 | 1649.31 | 9.72 | 1647.65 | 5.87 | 1651.50 | 2.86 | 1654.51 | 8.96 | 1648.41 |
| ***MW-9*** | 1656.15 | 8.10 | 1648.05 | 10.31 | 1645.84 | 5.52 | 1650.63 | 3.30 | 1652.85 | 9.33 | 1646.82 |
| ***MW-10*** | 1656.69 | 9.47 | 1647.22 | 11.28 | 1645.41 | 6.60 | 1650.09 | 4.31 | 1652.38 | 10.49 | 1646.20 |
| ***MW-11*** | 1657.45 | 10.20 | 1647.25 | 11.78 | 1645.67 | 7.36 | 1650.09 | 4.86 | 1652.59 | 10.96 | 1646.49 |
| ***MW-12*** | 1656.90 | 9.91 | 1646.99 | 11.84 | 1645.06 | 7.10 | 1649.80 | 4.81 | 1652.09 | 10.96 | 1645.94 |
| ***MW-13*** | 1656.72 | 10.22 | 1646.50 | 12.04 | 1644.68 | 7.56 | 1649.16 | 5.44 | 1651.28 | 11.20 | 1645.52 |

| | *Casing Elevation* | *Depth* | *Elevation 09/09/04* | *Depth* | *Elevation 12/04/04* | *Depth* | *Elevation 03/07/05* | *Depth* | *Elevation 06/20/05* | *Depth* | *Elevation 09/05/05* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MW-1*** | 1657.28 | 12.52 | 1644.76 | 11.52 | 1645.76 | 7.45 | 1649.83 | 9.34 | 1647.94 | 12.40 | 1644.88 |
| ***MW-2*** | 1657.82 | 11.65 | 1646.17 | 11.00 | 1646.82 | 6.94 | 1650.88 | 8.91 | 1648.91 | 11.73 | 1646.09 |
| ***MW-3*** | 1657.72 | 10.58 | 1647.14 | 10.09 | 1647.63 | 5.64 | 1652.08 | 7.95 | 1649.77 | 10.60 | 1647.12 |
| ***MW-4*** | 1657.40 | 10.93 | 1646.47 | 10.18 | 1647.22 | 5.49 | 1651.91 | 7.75 | 1649.65 | 10.86 | 1646.54 |
| ***MW-5*** | 1657.79 | 9.97 | 1647.82 | 9.57 | 1648.22 | 4.61 | 1653.18 | 7.40 | 1650.39 | 10.16 | 1647.63 |
| ***MW-6*** | 1657.51 | 9.79 | 1647.72 | 9.43 | 1648.08 | 4.72 | 1652.79 | 7.81 | 1649.70 | 9.92 | 1647.59 |
| ***MW-7*** | 1658.01 | 9.31 | 1648.70 | 9.02 | 1648.99 | 4.29 | 1653.72 | 7.07 | 1650.94 | 9.05 | 1648.96 |
| ***MW-8*** | 1657.37 | 9.79 | 1647.58 | 9.19 | 1648.18 | 4.36 | 1653.01 | 6.74 | 1650.63 | 9.63 | 1647.74 |
| ***MW-9*** | 1656.15 | 10.62 | 1645.53 | 9.18 | 1646.97 | 4.52 | 1651.63 | 6.01 | 1650.14 | 10.12 | 1646.03 |
| ***MW-10*** | 1656.69 | 11.30 | 1645.39 | 10.26 | 1646.43 | 5.64 | 1651.05 | 7.51 | 1649.18 | 11.07 | 1645.62 |
| ***MW-11*** | 1657.45 | 11.71 | 1645.74 | 10.75 | 1646.70 | 6.29 | 1651.16 | 8.41 | 1649.04 | 11.66 | 1645.79 |
| ***MW-12*** | 1656.90 | 12.01 | 1644.89 | 10.75 | 1646.15 | 6.20 | 1650.70 | 8.06 | 1648.84 | 11.73 | 1645.17 |
| ***MW-13*** | 1656.72 | 12.21 | 1644.51 | 11.02 | 1645.70 | 6.72 | 1650.00 | 8.50 | 1648.22 | 11.97 | 1644.75 |

# Table 2 - Analytical Results for Water Samples from Wells at 44851 North Highway 101, Laytonville



| | | TPH as DIESEL | TPH as GASOLINE | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | DIPE | ETBE | MTBE | TAME | TB | EDB | 1,2-DCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/l | | | | | | | | | | | | |
| **MW-1** | 04/06/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <10 | **510** | **18** | <100 | | |
| | 06/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **190** | **6.3** | <50 | | |
| | 09/05/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **170** | **5.3** | <25 | | |
| | 12/13/03 | <50 | <50 | <0.5 | **1.7** | <0.5 | <0.5 | <5.0 | <5.0 | **260** | <5.0 | <50 | | |
| | 03/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <10 | **180** | <10 | <100 | | |
| | 06/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **150** | <5.0 | <50 | | |
| | 09/09/04 | <50 | <50 | <0.5 | **2.4** | <0.5 | <0.5 | <2.5 | <2.5 | **170** | **5.4** | <25 | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **150** | <5 | <50 | <5 | <5 |
| | 03/07/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <1.0 | **71** | **3.0** | <10 | <1.0 | <1.0 |
| | 06/20/05 | **71** | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **38** | **1.6** | <5.0 | <0.5 | <0.5 |
| | 09/05/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.2 | <1.2 | **68** | **3.8** | <12 | <1.2 | <1.2 |
| **MW-2** | 04/06/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **160** | **6.0** | <25 | | |
| | 06/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **190** | <5.0 | <50 | | |
| | 09/05/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <17 | <17 | **750** | <17 | <170 | | |
| | 12/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **170** | <5.0 | <50 | | |
| | 03/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <1.0 | **48** | <1.0 | <10 | | |
| | 06/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **170** | **4.0** | <25 | | |
| | 09/09/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **200** | <5.0 | <50 | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **80** | **6.0** | <25 | <2.5 | <2.5 |
| | 03/07/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **29** | **1.1** | <5 | <0.5 | <0.5 |
| | 06/20/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **7.5** | <0.5 | <5 | <0.5 | <0.5 |
| | 09/05/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <1.0 | **62** | **2.7** | <10 | <1.0 | <1.0 |
| **MW-3** | 04/06/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <10 | **570** | **21** | <100 | | |
| | 06/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **290** | **11** | <50 | | |
| | 09/05/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <17 | <17 | **380** | <17 | <170 | | |
| | 12/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **460** | **8.2** | <50 | | |
| | 03/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <10 | **320** | <10 | <100 | | |
| | 06/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **260** | **6.1** | <50 | | |
| | 09/09/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **160** | **3.7** | <25 | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **200** | **6.1** | <50 | <5.0 | <5.0 |
| | 03/07/05 | <50 | **100** | <0.5 | **1.1** | <0.5 | <0.5 | <1.0 | <1.0 | **75** | **2.6** | <10 | <1.0 | <1.0 |
| | 06/20/05 | **60** | **100** | <0.5 | **1.1** | <0.5 | <0.5 | <0.5 | <0.5 | **37** | **1.3** | <5.0 | <0.5 | <0.5 |
| | 09/05/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **33** | **14** | <5.0 | <0.5 | <0.5 |
| **MW-4** | 04/06/03 | **600** | **12,000** | **330** | **2000** | **190** | **1400** | <120 | <120 | **6800** | **310** | <1200 | | |
| | 06/13/03 | **170** | **3,100** | **160** | **570** | **72** | **560** | <100 | <100 | **4500** | **190** | <1000 | | |
| | 09/05/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <17 | <17 | **740** | <17 | <170 | | |
| | 12/13/03 | **59** | **390** | **21** | **29** | **6.0** | **56** | <50 | <50 | **1100** | <17 | <500 | | |
| | 03/05/04 | **200** | **1500** | **64** | **190** | **49.0** | **180** | <25 | <25 | **1100** | **45** | <250 | | |
| | 06/05/04 | **79** | **180** | **4.3** | **2.5** | **4.2** | **8.4** | <5.0 | <5.0 | **310** | **7.0** | <50 | | |
| | 09/09/04 | **78** | **130** | **1.6** | **1.9** | **0.80** | **1.3** | <2.5 | <2.5 | **150** | **4.1** | <25 | | |
| | 12/04/04 | **81** | **510** | **9.7** | **5.5** | **7.8** | **23** | <5.0 | <5.0 | **140** | **7.0** | <50 | <5.0 | <5.0 |
| | 03/07/05 | **100** | **800** | **36** | **36** | **24** | **78** | <10 | <10 | **490** | **26** | <100 | <10 | <10 |
| | 06/20/05 | **100** | **930** | **25** | **60** | **38** | **140** | <5.0 | <5.0 | **230** | **11** | <50 | <5.0 | <5.0 |
| | 09/05/05 | **86** | **100** | **2.3** | **1.2** | **0.93** | **1.7** | <1.2 | <1.2 | **70** | **2.8** | **33** | <1.2 | <1.2 |
| **MW-5** | 04/06/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.5 | <1.5 | **84** | **3.2** | <12 | | |
| | 06/13/03 | **97** | **120** | <0.5 | <0.5 | <0.5 | <0.5 | <12 | <12 | **890** | <12 | <120 | | |
| | 09/05/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <17 | <17 | **1000** | **25** | <170 | | |
| | 12/13/03 | <50 | <50 | <0.5 | **1.1** | <0.5 | <0.5 | <0.5 | <0.5 | **4.0** | <0.5 | <5.0 | | |
| | 03/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **56** | <2.5 | <25 | | |
| | 06/05/04 | **54** | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | **190** | **3.7** | **66** | | |
| | 09/09/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **37** | **0.99** | <5.0 | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | **250** | **7.0** | <50 | <5.0 | <5.0 |
| | 03/07/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **1.1** | <0.5 | <5.0 | <0.5 | <0.5 |
| | 06/20/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **2.0** | <0.5 | <5.0 | <0.5 | <0.5 |
| | 09/05/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <1.2 | <1.2 | **64** | 1.9 | <12 | <1.2 | <1.2 |
| **MW-6** | 04/06/03 | **58** | **120** | <0.5 | **0.96** | <0.5 | <0.5 | <17 | <17 | **800** | **34** | <170 | | |
| | 06/13/03 | <50 | **80** | <0.5 | **0.68** | <0.5 | <0.5 | <17 | <17 | **1400** | **22** | <170 | | |
| | 09/05/03 | <50 | **100** | <0.5 | **1.8** | <0.5 | <0.5 | <17 | <17 | **1000** | <17 | <170 | | |
| | 12/13/03 | <50 | **100** | <0.5 | **1.8** | <0.5 | <0.5 | <10 | <10 | **530** | <17 | <100 | | |
| | 03/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <17 | <17 | **440** | <17 | <170 | | |
| | 06/05/04 | <50 | **57** | <0.5 | **1.5** | <0.5 | <0.5 | <0.5 | <0.5 | **330** | **8.0** | **120** | | |
| | 09/09/04 | <50 | **66** | <0.5 | **4.0** | <0.5 | <0.5 | <0.5 | <0.5 | **32** | **0.68** | **59** | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **23** | <0.5 | **82** | <0.5 | <0.5 |
| | 03/07/05 | **55** | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **21** | **0.69** | **36** | <0.5 | <0.5 |
| | 06/20/05 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **14** | <0.5 | **19** | <0.5 | <0.5 |
| | 09/05/05 | <50 | <50 | <0.5 | **1.1** | <0.5 | <0.5 | <0.5 | <0.5 | **7.2** | <0.5 | **15** | <0.5 | <0.5 |
| **MW-7** | 04/06/03 | **2500** | **2700** | **29** | **6.6** | **12** | **9.3** | <12 | <12 | **730** | **37** | <120 | | |
| | 06/13/03 | **420** | **1400** | **8.2** | **3.0** | **8.3** | **9.6** | <100 | <100 | **4900** | <100 | <1000 | | |
| | 09/05/03 | **76** | **630** | **3.0** | <1.7 | **1.8** | **1.9** | <120 | <120 | **5300** | <120 | <1200 | | |
| | 12/13/03 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **1.6** | <0.5 | <5.0 | | |
| | 03/05/04 | **440** | **730** | **4.0** | **1.2** | **1.9** | **2.1** | <17 | <17 | **580** | <17 | <170 | | |
| | 06/05/04 | **650** | **880** | **4.9** | **1.9** | **2.7** | **3.6** | <0.5 | <0.5 | **270** | **5.1** | **170** | | |
| | 09/09/04 | **670** | **1500** | **2.1** | **1.3** | **2.1** | **2.2** | <1.0 | <1.0 | **32** | **0.68** | **59** | | |
| | 12/04/04 | **250** | **670** | **1.0** | **2.6** | **0.82** | **0.64** | <5.0 | <5.0 | **23** | <5.0 | **190** | <5.0 | <5.0 |
| | 03/07/05 | **210** | **510** | **0.99** | **0.71** | **0.75** | **0.51** | <0.5 | <0.5 | **24** | <0.5 | **51** | <0.5 | <0.5 |
| | 06/20/05 | **3200** | **770** | **1.1** | **0.95** | **1.7** | **1.5** | <0.5 | <0.5 | **20** | <0.5 | **20** | <0.5 | <0.5 |
| | 09/05/05 | **730** | **450** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **20** | **0.75** | **21** | <0.5 | <0.5 |

Table 2 - Analytical Results for Water Samples from Wells at 44851 North Highway 101, Laytonville



| | | TPH as DIESEL | TPH as GASOLINE | BENZENE | TOLUENE | ETHLY-BENZENE | XYLENES | DIPE | ETBE | MTBE | TAME | TB | EDB | 1,2-DCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ug/l | | | | | | ug/l | | | | | | |
| **MW-8** | 04/06/03 | 1400 | 4500 | 61 | 9.9 | 86 | 12 | <50 | <50 | 3700 | 180 | <500 | | |
| | 06/13/03 | 710 | 3100 | 47 | 9.6 | 80 | 12 | <50 | <50 | 3500 | 130 | <500 | | |
| | 09/05/03 | 500 | 2600 | 43 | 6.9 | 60 | 6.3 | <25 | <25 | 2500 | 80 | <250 | | |
| | 12/13/03 | 1500 | 3300 | 32 | 5.4 | 43 | 7.0 | <50 | <50 | 2700 | <50 | <500 | | |
| | 03/05/04 | 1900 | 5000 | 34 | 5.2 | 2 | 2.1 | <50 | <50 | 1800 | <50 | <500 | | |
| | 06/05/04 | 1600 | 3400 | 22 | 6.1 | 63 | 9.2 | <17 | <17 | 1400 | 45 | 240 | | |
| | 09/09/04 | 2000 | 2800 | 10 | 3.8 | 29 | 7.0 | <10 | <10 | 490 | 13 | 380 | | |
| | 12/04/04 | 1200 | 3500 | 20 | 5.4 | 22 | 5.0 | <10 | <10 | 350 | <10 | 350 | <10 | <10 |
| | 03/07/05 | 1200 | 4100 | 22 | 4.8 | 45 | 1.9 | <5.0 | <5.0 | 320 | 12 | 360 | <5.0 | <5.0 |
| | 06/20/05 | 1200 | 3700 | 20 | 10 | 32 | 12 | <5.0 | <5.0 | 230 | 8.9 | 230 | <5.0 | <5.0 |
| | 09/05/05 | 1400 | 2200 | 13 | 4.3 | 29 | 5.6 | <5.0 | <5.0 | 220 | 9.0 | 290 | <5.0 | <5.0 |
| **MW-9** | 04/06/03 | 550 | 1700 | 1.4 | 2.1 | 2.4 | <1.0 | <50 | <50 | 2300 | 68 | <500 | | |
| | 06/13/03 | 370 | 1100 | 0.99 | 2.2 | 3.1 | 1.2 | <50 | <50 | 2500 | 54 | <500 | | |
| | 09/05/03 | 140 | 1100 | 2.1 | 0.81 | 1.8 | <0.5 | <50 | <50 | 3000 | 73 | <500 | | |
| | 12/13/03 | 590 | 890 | <1.0 | 1.6 | 2.8 | 3.2 | <50 | <50 | 2600 | 74 | <500 | | |
| | 03/05/04 | 680 | 1900 | 2.2 | 1.7 | 2.8 | 1.3 | <50 | <50 | 2500 | 68 | <500 | | |
| | 06/05/04 | 510 | 890 | 1.4 | 1.2 | 1.1 | 1.2 | <50 | <50 | 2000 | 60 | <500 | | |
| | 09/09/04 | 270 | 410 | <0.5 | 0.7 | 1.4 | <0.5 | <12 | <12 | 910 | 26 | 620 | | |
| | 12/04/04 | 310 | 800 | 1.4 | 2.4 | 1.3 | 0.70 | <10 | <10 | 280 | <10 | 890 | <10 | <10 |
| | 03/07/05 | 470 | 390 | <0.5 | <0.5 | 1.3 | <0.5 | <10 | <10 | 260 | <10 | 1100 | <10 | <10 |
| | 06/20/05 | 480 | 1500 | 1.2 | 2.0 | 1.7 | 0.51 | <5.0 | <5.0 | 110 | <5.0 | 1100 | <5.0 | <5.0 |
| | 09/05/05 | 370 | 770 | <0.5 | 0.57 | 0.97 | <0.5 | <10 | <10 | 65 | <10 | 870 | <10 | <10 |
| **MW-10** | 04/06/03 | 110 | 800 | 27 | 6.5 | 17 | 70 | <33 | <33 | 1600 | 99 | <330 | | |
| | 06/13/03 | 60 | 250 | 13 | 2.3 | 4.6 | 15 | <25 | <25 | 1900 | 66 | <250 | | |
| | 09/05/03 | <50 | 340 | 14 | 2.0 | 4.7 | 5.3 | <50 | <50 | 1800 | <50 | <500 | | |
| | 12/13/03 | 53 | 170 | 14 | 0.90 | 2.9 | 2.2 | <17 | <17 | 1100 | 40 | <170 | | |
| | 03/05/04 | 130 | 810 | 46 | 6.7 | 12 | 28 | <25 | <25 | 1300 | 65 | <250 | | |
| | 06/05/04 | 56 | 120 | 8.3 | 0.83 | 1.1 | 2.9 | <17 | <17 | 740 | 36 | 260 | | |
| | 09/09/04 | <50 | 260 | 7.9 | 2.0 | 0.56 | 1.7 | <1.7 | <1.7 | 91 | 4.6 | 110 | | |
| | 12/04/04 | 56 | 130 | 3.2 | 1.7 | <0.5 | 0.87 | <5.0 | <5.0 | 260 | 8.4 | 100 | <5.0 | <5.0 |
| | 03/07/05 | 81 | 180 | 11 | 2.5 | 2.6 | 7.0 | <5.0 | <5.0 | 210 | 15 | 110 | <5.0 | <5.0 |
| | 06/20/05 | 95 | 310 | 20 | 2.8 | 5.5 | 28 | <5.0 | <5.0 | 330 | 22 | 120 | <5.0 | <5.0 |
| | 09/05/05 | <50 | 280 | 8.9 | 2.9 | 1.5 | 4.4 | <2.5 | <2.5 | 130 | 9.3 | 64 | <2.5 | <2.5 |
| **MW-11** | 04/06/03 | 540 | 3200 | 10 | 8.2 | 82 | 360 | <5.0 | <5.0 | 340 | 24 | <50 | | |
| | 06/13/03 | 89 | 420 | 1.1 | 2.9 | 3.8 | 12 | <10 | <10 | 550 | 11 | <100 | | |
| | 09/05/03 | <50 | 290 | 0.63 | 1.1 | 2.3 | 6.2 | <17 | <17 | 1000 | 18 | <170 | | |
| | 12/13/03 | 1200 | 4200 | 20 | 12 | 75 | 430 | <5.0 | <5.0 | 240 | 18 | <50 | | |
| | 03/05/04 | 1300 | 3600 | 12 | 13 | 49 | 250 | <5.0 | <5.0 | 190 | 12 | <50 | | |
| | 06/05/04 | <50 | 110 | <0.5 | 0.97 | 49 | 0.89 | <5.0 | <5.0 | 250 | 5.9 | <50 | | |
| | 09/09/04 | 56 | 480 | 1.0 | 2.6 | 2.0 | 12 | <2.5 | <2.5 | 180 | 4.6 | <25 | | |
| | 12/04/04 | 71 | 270 | <0.5 | 1.1 | 1.9 | 16 | <2.5 | <2.5 | 110 | <2.5 | <25 | <2.5 | <2.5 |
| | 03/07/05 | 730 | 890 | 4.7 | 0.70 | 12 | 76 | <1.0 | <1.0 | 69 | 6.5 | 16 | <1.0 | <1.0 |
| | 06/20/05 | 930 | 3200 | 10 | 15 | 24 | 120 | <1.0 | <1.0 | 66 | 12.0 | <10 | <1.0 | <1.0 |
| | 09/05/05 | 54 | 970 | 1.1 | 4.7 | 0.57 | 9.6 | <1.2 | <1.2 | 63 | 2.5 | <12 | <1.2 | <1.2 |
| **MW-12** | 04/06/03 | 4000 | 45,000 | 330 | 3000 | 1800 | 8200 | <20 | <20 | 1000 | 110 | <200 | | |
| | 06/13/03 | 2400 | 40,000 | 150 | 1500 | 1900 | 7600 | <50 | <50 | 350 | <50 | <500 | | |
| | 09/05/03 | <50 | 770 | 4.6 | 6.2 | 24 | 78 | <17 | <17 | 1000 | 29 | <170 | | |
| | 12/13/03 | 3500 | 31,000 | 250 | 800 | 1800 | 8400 | <12 | <12 | 840 | 74 | <120 | | |
| | 03/05/04 | 3900 | 39,000 | 120 | 600 | 2300 | 8300 | <5.0 | <5.0 | 300 | 18 | <50 | | |
| | 06/05/04 | 3200 | 20,000 | <50 | 74 | 840 | 3200 | <5.0 | <5.0 | 220 | 8.0 | <50 | | |
| | 09/09/04 | 170 | 1500 | 3.2 | 5.2 | 24 | 82 | <5.0 | <5.0 | 350 | 13 | <50 | | |
| | 12/04/04 | 2200 | 16,000 | 18 | 54 | 740 | 2400 | <5.0 | <5.0 | 180 | 5.9 | <50 | <5.0 | <5.0 |
| | 03/07/05 | 2800 | 22,000 | 56 | 95 | 1400 | 4300 | <5.0 | <5.0 | 210 | 15 | 97 | <5.0 | <5.0 |
| | 06/20/05 | 2700 | 34,000 | 87 | 110 | 1800 | 5800 | <5.0 | <5.0 | 160 | 16 | <50 | <5.0 | <5.0 |
| | 09/05/05 | 95 | 800 | 1.3 | 2.3 | 16 | 43 | <5.0 | <5.0 | 160 | 7.9 | <50 | <5.0 | <5.0 |
| **MW-13** | 04/06/03 | 1100 | 1500 | 3.4 | 3.8 | 28 | 17 | <10 | <10 | 600 | 31 | <100 | | |
| | 06/13/03 | 57 | 260 | 0.94 | 0.95 | 2.2 | 2.1 | <5.0 | <5.0 | 370 | 15 | <50 | | |
| | 09/05/03 | <50 | 260 | 0.94 | 0.95 | 2.2 | 2.1 | <2.5 | <2.5 | 130 | 3.6 | <25 | | |
| | 12/13/03 | 790 | 710 | 3.9 | 2.4 | 10 | 12 | <5.0 | <5.0 | 390 | 20 | <50 | | |
| | 03/05/04 | 940 | 1100 | 2.9 | 2.0 | 26 | 20 | <5.0 | <5.0 | 370 | 17 | 65 | | |
| | 06/05/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | 340 | 13 | <50 | | |
| | 09/09/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | <2.5 | 120 | 2.5 | <25 | | |
| | 12/04/04 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <5.0 | 160 | <5.0 | <50 | <5.0 | <5.0 |
| | 03/07/05 | 1100 | 750 | 1.6 | <1.0 | 11 | 6.5 | <2.5 | <2.5 | 140 | 9.5 | 29 | <2.5 | <2.5 |
| | 06/20/05 | 510 | 510 | 0.81 | <0.5 | 4.9 | 2.2 | <1.7 | <1.7 | 110 | 4.8 | <17 | <1.7 | <1.7 |
| | 09/05/05 | <50 | 130 | <0.5 | 4.1 | <0.5 | <0.5 | <2.5 | <2.5 | 140 | 5.3 | <25 | <2.5 | <2.5 |

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| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/09/05-09/10/05 |
| | Client P.O.: | Date Analyzed: 09/09/05-09/10/05 |

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509134

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A | MW-1 | W | ND | --- | ND | ND | ND | ND | 1 | 98 |
| 002A | MW-2 | W | ND | --- | ND | ND | ND | ND | 1 | 94 |
| 003A | MW-3 | W | ND | --- | ND | ND | ND | ND | 1 | 117 |
| 004A | MW-4 | W | 100,a | --- | 2.3 | 1.2 | 0.93 | 1.7 | 1 | 117 |
| 005A | MW-5 | W | ND | --- | ND | ND | ND | ND | 1 | 110 |
| 006A | MW-6 | W | ND | --- | ND | 1.1 | ND | ND | 1 | 104 |
| 007A | MW-7 | W | 450,a | --- | ND | ND | ND | ND | 1 | 93 |
| 008A | MW-8 | W | 2200,a | --- | 13 | 4.3 | 29 | 5.6 | 3.3 | 87 |
| 009A | MW-9 | W | 770,a | --- | ND | 0.57 | 0.97 | ND | 1 | 99 |
| 010A | MW-10 | W | 280,a | --- | 8.9 | 2.9 | 1.5 | 4.4 | 1 | 92 |
| 011A | MW-11 | W | 970,a | --- | 1.1 | 4.7 | 0.57 | 9.6 | 1 | 101 |
| 012A | MW-12 | W | 800,a | --- | 1.3 | 2.3 | 16 | 43 | 1 | 105 |
| 013A | MW-13 | W | 130,m | --- | ND | 4.1 | ND | ND | 1 | 115 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | µg/L |
| | S | NA | NA | NA | NA | NA | NA | 1 | mg/Kg |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

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| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/07/05 |
| | Client P.O.: | Date Analyzed: 09/08/05-09/10/05 |

## Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0509134

| Lab ID | Client ID | Matrix | TPH(d) | DF | % SS |
|---|---|---|---|---|---|
| 0509134-001B | MW-1 | W | ND | 1 | 114 |
| 0509134-002B | MW-2 | W | ND | 1 | 113 |
| 0509134-003B | MW-3 | W | ND | 1 | 115 |
| 0509134-004B | MW-4 | W | 86,d | 1 | 95 |
| 0509134-005B | MW-5 | W | ND | 1 | 113 |
| 0509134-006B | MW-6 | W | ND | 1 | 115 |
| 0509134-007B | MW-7 | W | 730,a | 1 | 108 |
| 0509134-008B | MW-8 | W | 1400,d | 1 | 114 |
| 0509134-009B | MW-9 | W | 370,d | 1 | 113 |
| 0509134-010B | MW-10 | W | ND | 1 | 116 |
| 0509134-011B | MW-11 | W | 54,d | 1 | 94 |
| 0509134-012B | MW-12 | W | 95,d | 1 | 108 |
| 0509134-013B | MW-13 | W | ND | 1 | 102 |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|---|---|---|---|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 50 | µg/L |
| | S | NA | NA |

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/09/05-09/13/05 |
| | Client P.O.: | Date Analyzed: 09/09/05-09/13/05 |

## Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509134

| Lab ID | 0509134-001C | 0509134-002C | 0509134-003C | 0509134-004C | Reporting Limit for DF =1 | |
|---|---|---|---|---|---|---|
| Client ID | MW-1 | MW-2 | MW-3 | MW-4 | | |
| Matrix | W | W | W | W | | |
| DF | 2.5 | 2 | 1 | 2.5 | S | W |
| **Compound** | **Concentration** | | | | ug/kg | µg/L |
| tert-Amyl methyl ether (TAME) | 3.8 | 2.7 | 1.4 | 2.8 | NA | 0.5 |
| t-Butyl alcohol (TBA) | ND<12 | ND<10 | ND | 33 | NA | 5.0 |
| 1,2-Dibromoethane (EDB) | ND<1.2 | ND<1.0 | ND | ND<1.2 | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<1.2 | ND<1.0 | ND | ND<1.2 | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<1.2 | ND<1.0 | ND | ND<1.2 | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<1.2 | ND<1.0 | ND | ND<1.2 | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 68 | 62 | 33 | 70 | NA | 0.5 |
| **Surrogate Recoveries (%)** | | | | | | |
| %SS1: | 97 | 97 | 95 | 96 | | |
| Comments | | | | | | |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis, p) see attached narrative.

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| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/09/05-09/13/05 |
| | Client P.O.: | Date Analyzed: 09/09/05-09/13/05 |

## Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509134

| Lab ID | 0509134-005C | 0509134-006C | 0509134-007C | 0509134-008C | Reporting Limit for DF =1 | |
|---|---|---|---|---|---|---|
| Client ID | MW-5 | MW-6 | MW-7 | MW-8 | | |
| Matrix | W | W | W | W | | |
| DF | 2.5 | 1 | 1 | 10 | S | W |
| **Compound** | **Concentration** | | | | ug/kg | µg/L |
| tert-Amyl methyl ether (TAME) | 1.9 | ND | 0.75 | 9.0 | NA | 0.5 |
| t-Butyl alcohol (TBA) | ND<12 | 15 | 21 | 290 | NA | 5.0 |
| 1,2-Dibromoethane (EDB) | ND<1.2 | ND | ND | ND<5.0 | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<1.2 | ND | ND | ND<5.0 | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<1.2 | ND | ND | ND<5.0 | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<1.2 | ND | ND | ND<5.0 | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 64 | 7.2 | 20 | 220 | NA | 0.5 |
| **Surrogate Recoveries (%)** | | | | | | |
| %SS1: | 91 | 95 | 90 | 93 | | |
| **Comments** | | | | | | |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/09/05-09/13/05 |
| | Client P.O.: | Date Analyzed: 09/09/05-09/13/05 |

## Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509134

| Lab ID | 0509134-009C | 0509134-010C | 0509134-011C | 0509134-012C | Reporting Limit for DF =1 | |
|---|---|---|---|---|---|---|
| Client ID | MW-9 | MW-10 | MW-11 | MW-12 | | |
| Matrix | W | W | W | W | | |
| DF | 20 | 5 | 2.5 | 10 | S | W |
| **Compound** | **Concentration** | | | | ug/kg | µg/L |
| tert-Amyl methyl ether (TAME) | ND<10 | 9.3 | 2.5 | 7.9 | NA | 0.5 |
| t-Butyl alcohol (TBA) | 870 | 64 | ND<12 | ND<50 | NA | 5.0 |
| 1,2-Dibromoethane (EDB) | ND<10 | ND<2.5 | ND<1.2 | ND<5.0 | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<10 | ND<2.5 | ND<1.2 | ND<5.0 | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<10 | ND<2.5 | ND<1.2 | ND<5.0 | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<10 | ND<2.5 | ND<1.2 | ND<5.0 | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 65 | 130 | 63 | 160 | NA | 0.5 |
| **Surrogate Recoveries (%)** | | | | | | |
| %SS1: | 95 | 95 | 94 | 95 | | |
| Comments | | | | | | |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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| | | |
|---|---|---|
| The McEdwards Group<br>1025 Hearst-Willits Road<br>Willits, CA 95490-9743 | Client Project ID: #1058.01.02; 44851 Hwy 101 | Date Sampled: 09/05/05 |
| | | Date Received: 09/07/05 |
| | Client Contact: Don McEdwards | Date Extracted: 09/09/05-09/13/05 |
| | Client P.O.: | Date Analyzed: 09/09/05-09/13/05 |

## Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509134

| Lab ID | 0509134-013C | | | | Reporting Limit for DF =1 | |
|---|---|---|---|---|---|---|
| Client ID | MW-13 | | | | | |
| Matrix | W | | | | | |
| DF | 5 | | | | S | W |
| **Compound** | **Concentration** | | | | ug/kg | µg/L |
| tert-Amyl methyl ether (TAME) | 5.3 | | | | NA | 0.5 |
| t-Butyl alcohol (TBA) | ND<25 | | | | NA | 5.0 |
| 1,2-Dibromoethane (EDB) | ND<2.5 | | | | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<2.5 | | | | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<2.5 | | | | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<2.5 | | | | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 140 | | | | NA | 0.5 |
| **Surrogate Recoveries (%)** | | | | | | |
| %SS1: | 97 | | | | | |
| **Comments** | | | | | | |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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# QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509134

**EPA Method: SW8021B/8015Cm** **Extraction: SW5030B** **BatchID: 17882** **Spiked Sample ID: 0509121-004A**

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | LCS / LCSD |
| TPH(btex)[£] | ND | 60 | 105 | 108 | 2.63 | 114 | 108 | 5.09 | 70 - 130 | 70 - 130 |
| MTBE | ND | 10 | 90.3 | 102 | 11.7 | 101 | 105 | 3.15 | 70 - 130 | 70 - 130 |
| Benzene | ND | 10 | 88.9 | 93.9 | 5.43 | 95.6 | 99.3 | 3.80 | 70 - 130 | 70 - 130 |
| Toluene | ND | 10 | 89.9 | 94.6 | 5.12 | 97.8 | 101 | 3.53 | 70 - 130 | 70 - 130 |
| Ethylbenzene | ND | 10 | 91.4 | 95.8 | 4.73 | 102 | 103 | 0.486 | 70 - 130 | 70 - 130 |
| Xylenes | ND | 30 | 94.7 | 98.7 | 4.14 | 103 | 103 | 0 | 70 - 130 | 70 - 130 |
| %SS: | 94 | 10 | 95 | 98 | 3.03 | 98 | 100 | 2.48 | 70 - 130 | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 17882 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0509134-001A | 9/05/05 2:00 PM | 9/09/05 | 9/09/05 8:12 PM | 0509134-002A | 9/05/05 2:30 PM | 9/09/05 | 9/09/05 8:44 PM |
| 0509134-003A | 9/05/05 3:00 PM | 9/10/05 | 9/10/05 2:05 AM | 0509134-004A | 9/05/05 3:30 PM | 9/10/05 | 9/10/05 7:54 AM |
| 0509134-005A | 9/05/05 4:00 PM | 9/09/05 | 9/09/05 1:59 PM | 0509134-006A | 9/05/05 4:30 PM | 9/09/05 | 9/09/05 2:29 PM |
| 0509134-007A | 9/05/05 5:00 PM | 9/09/05 | 9/09/05 4:39 PM | 0509134-008A | 9/05/05 5:30 PM | 9/10/05 | 9/10/05 9:00 AM |
| 0509134-009A | 9/05/05 6:00 PM | 9/09/05 | 9/09/05 5:09 PM | 0509134-010A | 9/05/05 6:30 PM | 9/09/05 | 9/09/05 5:39 PM |
| 0509134-011A | 9/05/05 7:00 PM | 9/09/05 | 9/09/05 6:09 PM | 0509134-012A | 9/05/05 7:30 PM | 9/09/05 | 9/09/05 6:39 PM |
| 0509134-013A | 9/05/05 8:00 PM | 9/09/05 | 9/09/05 7:52 AM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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# QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509134

**EPA Method: SW8015C** **Extraction: SW3510C** **BatchID: 17854** **Spiked Sample ID: N/A**

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | LCS / LCSD |
| TPH(d) | N/A | 1000 | N/A | N/A | N/A | 101 | 103 | 1.73 | N/A | 70 - 130 |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 97 | 99 | 2.72 | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 17854 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0509134-001B | 9/05/05 2:00 PM | 9/07/05 | 9/08/05 8:08 AM | 0509134-002B | 9/05/05 2:30 PM | 9/07/05 | 9/08/05 9:15 AM |
| 0509134-003B | 9/05/05 3:00 PM | 9/07/05 | 9/08/05 10:14 PM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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# QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509134

**EPA Method: SW8015C** **Extraction: SW3510C** **BatchID: 17894** **Spiked Sample ID: N/A**

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | LCS / LCSD |
| TPH(d) | N/A | 1000 | N/A | N/A | N/A | 105 | 104 | 0.818 | N/A | 70 - 130 |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 94 | 94 | 0 | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 17894 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0509134-004B | 9/05/05 3:30 PM | 9/07/05 | 9/09/05 11:26 PM | 0509134-005B | 9/05/05 4:00 PM | 9/07/05 | 9/09/05 12:27 AM |
| 0509134-006B | 9/05/05 4:30 PM | 9/07/05 | 9/09/05 1:33 AM | 0509134-007B | 9/05/05 5:00 PM | 9/07/05 | 9/09/05 2:39 AM |
| 0509134-008B | 9/05/05 5:30 PM | 9/07/05 | 9/09/05 3:45 AM | 0509134-009B | 9/05/05 6:00 PM | 9/07/05 | 9/09/05 7:04 AM |
| 0509134-010B | 9/05/05 6:30 PM | 9/07/05 | 9/09/05 8:10 AM | 0509134-011B | 9/05/05 7:00 PM | 9/07/05 | 9/10/05 12:35 AM |
| 0509134-012B | 9/05/05 7:30 PM | 9/07/05 | 9/09/05 12:50 PM | 0509134-013B | 9/05/05 8:00 PM | 9/07/05 | 9/09/05 2:01 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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# QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509134

**EPA Method: SW8260B** | **Extraction: SW5030B** | **BatchID: 17883** | **Spiked Sample ID: 0509121-004C**

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | LCS / LCSD |
| tert-Amyl methyl ether (TAME) | ND | 10 | 87.6 | 85 | 3.05 | 82.8 | 81.6 | 1.50 | 70 - 130 | 70 - 130 |
| t-Butyl alcohol (TBA) | ND | 50 | 90.8 | 102 | 11.5 | 91.8 | 90.2 | 1.77 | 70 - 130 | 70 - 130 |
| Diisopropyl ether (DIPE) | ND | 10 | 118 | 115 | 2.78 | 112 | 111 | 0.775 | 70 - 130 | 70 - 130 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 91.6 | 88 | 3.97 | 88.3 | 85.4 | 3.28 | 70 - 130 | 70 - 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 90.7 | 87.2 | 4.00 | 90.6 | 86.6 | 4.54 | 70 - 130 | 70 - 130 |
| %SS1: | 104 | 10 | 103 | 102 | 0.522 | 104 | 100 | 3.21 | 70 - 130 | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 17883 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0509134-001C | 9/05/05 2:00 PM | 9/09/05 | 9/09/05 3:03 PM | 0509134-002C | 9/05/05 2:30 PM | 9/09/05 | 9/09/05 3:59 PM |
| 0509134-003C | 9/05/05 3:00 PM | 9/09/05 | 9/09/05 1:14 AM | 0509134-004C | 9/05/05 3:30 PM | 9/09/05 | 9/09/05 10:54 PM |
| 0509134-005C | 9/05/05 4:00 PM | 9/13/05 | 9/13/05 11:56 AM | 0509134-006C | 9/05/05 4:30 PM | 9/09/05 | 9/09/05 3:31 AM |
| 0509134-007C | 9/05/05 5:00 PM | 9/09/05 | 9/09/05 4:16 AM | 0509134-008C | 9/05/05 5:30 PM | 9/09/05 | 9/09/05 10:08 PM |
| 0509134-009C | 9/05/05 6:00 PM | 9/09/05 | 9/09/05 6:19 PM | 0509134-010C | 9/05/05 6:30 PM | 9/09/05 | 9/09/05 7:05 PM |
| 0509134-011C | 9/05/05 7:00 PM | 9/09/05 | 9/09/05 7:51 PM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

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# QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509134

**EPA Method: SW8260B** | **Extraction: SW5030B** | **BatchID: 17893** | **Spiked Sample ID: 0509150-007C**

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | LCS / LCSD |
| tert-Amyl methyl ether (TAME) | ND | 10 | 84.8 | 88.7 | 4.45 | 81.2 | 79.5 | 2.07 | 70 - 130 | 70 - 130 |
| t-Butyl alcohol (TBA) | ND | 50 | 90.2 | 96.1 | 6.33 | 89.7 | 85.3 | 5.00 | 70 - 130 | 70 - 130 |
| Diisopropyl ether (DIPE) | ND | 10 | 112 | 118 | 5.10 | 112 | 108 | 3.99 | 70 - 130 | 70 - 130 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 88.7 | 94 | 5.75 | 86.2 | 82.9 | 3.85 | 70 - 130 | 70 - 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 88.5 | 91.5 | 3.24 | 86.3 | 83.7 | 3.11 | 70 - 130 | 70 - 130 |
| %SS1: | 96 | 10 | 104 | 104 | 0 | 100 | 99 | 0.668 | 70 - 130 | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 17893 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 0509134-012C | 9/05/05 7:30 PM | 9/09/05 | 9/09/05 8:37 PM | 0509134-013C | 9/05/05 8:00 PM | 9/09/05 | 9/09/05 9:23 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

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# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 0509134** **ClientID: TMG** **EDF: NO**

**Report to:**
Don McEdwards
The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490-9743

TEL: (707) 459-1086
FAX: (707) 459-1084
ProjectNo: #1058.01.02; 44851 Hwy 101
PO:

**Bill to:**
Don McEdwards
The McEdwards Group
1025 Heasrt-Willits Road
Willits, CA 95490-9743

Requested TAT: 5 days

*Date Received:* 09/07/2005
*Date Printed:* 09/07/2005

| Sample ID | ClientSampID | Matrix | Collection Date | Hold | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Requested Tests (See legend below) | | | | | | | | | | | | | | |
| 0509134-001 | MW-1 | Water | 9/5/05 2:00:00 PM | ☐ | C | A | A | B | | | | | | | | | | | |
| 0509134-002 | MW-2 | Water | 9/5/05 2:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-003 | MW-3 | Water | 9/5/05 3:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-004 | MW-4 | Water | 9/5/05 3:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-005 | MW-5 | Water | 9/5/05 4:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-006 | MW-6 | Water | 9/5/05 4:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-007 | MW-7 | Water | 9/5/05 5:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-008 | MW-8 | Water | 9/5/05 5:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-009 | MW-9 | Water | 9/5/05 6:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-010 | MW-10 | Water | 9/5/05 6:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-011 | MW-11 | Water | 9/5/05 7:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-012 | MW-12 | Water | 9/5/05 7:30:00 PM | ☐ | C | A | | B | | | | | | | | | | | |
| 0509134-013 | MW-13 | Water | 9/5/05 8:00:00 PM | ☐ | C | A | | B | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5-OXYS_W | 2 | G-MBTEX_W | 3 | PREDF REPORT | 4 | TPH(D)_W | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | 13 | | 14 | | 15 | |

**Prepared by: Melissa Valles**

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

TMG 0509134

# McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Don McEdwards Bill To: SAME
Company: The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490-9743 E-Mail: TMG@WSTAWAVE.NET
Tele: (707) 459-1086 Fax: (707) 459-1084
Project #: 1058.01.02 Project Name: 44851 HWY 101
Project Location: LAYTON VILLE
Sampler Signature: Don McEdwards

| | SAMPLE ID (Field Point Name) | LOCATION | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX Water | Soil | Air | Sludge | Other | METHOD PRESERVED Ice | HCl | $HNO_3$ | Other | BTEX & TPH as Gas (602/8020 + 8015) | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | Other: 5 OXY'S ONLY BY 8260 | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | MW-1 | | 9/5/05 | 1400 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | " | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-2 | | | 1430 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-3 | | | 1500 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-4 | | | 1530 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-5 | | | 1600 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-6 | | | 1630 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| + | MW-7 | | | 1700 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | | ✓ | | | | |
| | " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: |
|---|---|---|---|
| Don McEdwards | 9/6/05 | 0800 | MW 9/7/05 12p |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION APPROPRIATE ✓
CONTAINERS
PERSERVED IN LAB

| VOAS | O&G | METALS | OTHER |
|---|---|---|---|
| ✓ | | | |

# McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Don McEdwards Bill To: SAME
Company: The McEdwards Group
1025 Hearst-Willits Road
Willits, CA 95490-9743 E-Mail: TMGCONSTAWAVE.NET
Tele: (707) 459-1086 Fax: (707) 459-1084
Project #: 1058.01.02 Project Name: 44851 HWY 101
Project Location: LAYTONVILLE
Sampler Signature: Don McEdwards

| SAMPLE ID (Field Point Name) | LOCATION | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX Water | Soil | Air | Sludge | Other | METHOD PRESERVED Ice | HCl | $HNO_3$ | Other | BTEX & TPH as Gas (602/8020 + 8015) | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | Other: 5 OXY'S ONLY | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | | 9/5/05 | 1730 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| MW-9 | | | 1800 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| MW-10 | | | 1830 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| MW-11 | | | 1900 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| MW-12 | | | 1930 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | 2" | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |
| MW-13 | | | 2000 | 4 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | ✓ | | | | | |
| " | | | " | 1 | LTR | ✓ | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: |
|---|---|---|---|
| Don McEdwards | 9/6/05 | 0800 | [illegible] 9/1/05 12pm |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

ICE/t° _____ PRESERVATION _____ VOAS | O&G | METALS | OTHER
GOOD CONDITION _____ APPROPRIATE
HEAD SPACE ABSENT _____ CONTAINERS _____
DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

# Well Purging and Sampling Record

The McEdwards Group, 1025 Hearst-Willits Road, Willits, CA 95490
Tel: 707/459-1086 Fax: 707/459-1084
Field work done by Donald G. McEdwards

Site Name 44851 HWY 1 Project No. 1058.01.02 Date 9/5/05

Five casing volumes (5CV) = water column (WC) in ft * 0.816 (5/6) gal/ft for 2" well [3.26 (10/3) gal/ft for 4" well]

MW 1 Depth[a] 20 WL[b] 12.40 WC[a-b] 7.60 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 2 | 6.48 | 288 | 145 | 0.74 | 18.7 |
| 4 | DRY @ 3.5 | | | | |
| 6 | | | | | |
| 8 | | | | | |

Purged Gallons: 3.5 Time Sampled 1400

MW 2 Depth[a] 20 WL[b] 11.73 WC[a-b] 8.27 5CV 6.74

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.13 | 297 | 127 | 0.48 | 18.0 |
| 2 | DRY @ 2 | | | | |
| 3 | | | | | |
| 4 | | | | | |

Purged Gallons: 2 Time Sampled 1430

MW 3 Depth[a] 20 WL[b] 10.60 WC[a-b] 9.40 5CV 7.67

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.32 | 373 | 69 | 0.57 | 17.7 |
| 2 | 6.30 | 380 | 61 | 0.47 | 18.1 |
| 3 | 6.27 | 369 | 85 | 0.39 | 17.6 |
| 4 | 6.31 | 346 | 96 | 0.36 | 17.3 |
| 5 | 6.39 | 325 | 104 | 0.36 | 16.9 |
| | DRY @ 5 | | | | |

Purged Gallons: 5 Time Sampled 1500

MW 4 Depth[a] 20 WL[b] 10.86 WC[a-b] 9.14 5CV 7.45

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.51 | 421 | 33 | 0.53 | 19.7 |
| 2 | 6.51 | 498 | 48 | 0.42 | 20.3 |
| 3 | 6.52 | 479 | 51 | 0.32 | 19.5 |
| 4 | 6.53 | 465 | 55 | 0.30 | 19.0 |
| 5 | 6.55 | 496 | 56 | 0.29 | 18.4 |
| 6 | DRY 5.5 | | | | |

Purged Gallons: 5.5 Time Sampled 1530

MW 5 Depth[a] 20 WL[b] 10.16 WC[a-b] 9.84 5CV 8.02

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.73 | 420 | 58 | 0.34 | 17.2 |
| 2 | 6.58 | 451 | 55 | 0.27 | 17.8 |
| 3 | 6.68 | 420 | 55 | 0.23 | 16.8 |
| | DRY @ 3 | | | | |

Purged Gallons: 3 Time Sampled 1600

MW 6 Depth[a] 20 WL[b] 9.92 WC[a-b] 10.08 5CV 8.22

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.63 | 640 | 53 | 0.31 | 20.8 |
| 2 | 6.61 | 622 | 49 | 0.25 | 21.3 |
| 3 | 6.63 | 616 | 50 | 0.24 | 21.1 |
| 4 | 6.67 | 608 | 51 | 0.23 | 20.9 |
| 5 | 6.65 | 602 | 52 | 0.23 | 20.4 |
| 6 | 6.65 | 599 | 48 | 0.28 | 19.6 |
| 7 | DRY @ 6.5 | | | | |

Purged Gallons: 6.5 Time Sampled 1630

MW 7 Depth[a] 20 WL[b] 9.05 WC[a-b] 10.95 5CV 8.93

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.78 | 669 | 66 | 0.32 | 20.2 |
| 2 | 6.78 | 670 | 77 | 0.28 | 21.4 |
| 3 | 6.74 | 614 | 81 | 0.26 | 20.8 |
| 4 | 6.74 | 640 | 80 | 0.26 | 20.0 |
| 5 | 6.84 | 636 | 80 | 0.29 | 19.3 |
| 6 | 6.84 | 634 | 75 | 0.30 | 18.8 |
| 7 | DRY @ 6.5 | | | | |

Purged Gallons: 6.5 Time Sampled 1700

MW 8 Depth 20 WL[b] 9.63 WC[a-b] 10.37 5CV 7.85

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.36 | 514 | 33 | 0.32 | 20.9 |
| 2 | 6.30 | 588 | 20 | 0.30 | 22.2 |
| 3 | 6.32 | 581 | 20 | 0.26 | 21.5 |
| 4 | 6.32 | 571 | 21 | 0.24 | 21.2 |
| 5 | 6.46 | 538 | 21 | 0.23 | 20.4 |
| 6 | 6.42 | 554 | 22 | 0.23 | 19.9 |
| 7 | 6.36 | 571 | 28 | 0.23 | 19.6 |

Purged Gallons: 8 Time Sampled 1730

DRY @ 8

# Well Purging and Sampling Record

The McEdwards Group, 1025 Hearst-Willits Road, Willits, CA 95490
Tel: 707/459-1086 Fax: 707/459-1084
Field work done by Donald G. McEdwards

Site Name 44851 HWY 101 Project No 1058.01.02 Date 9/5/05

Five casing volumes (5CV) ≐ water column (WC) in ft * 0.816 (5/6) gal/ft for 2" well [3.26 (10/3) gal/ft for 4" well]

MW 9 Depth[a] 20 WL[b] 10.12 WC[a-b] 9.88 5CV 7.98

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.48 | 605 | 22 | 0.36 | 20.7 |
| 2 | 6.58 | 500 | 33 | 0.38 | 21.6 |
| 3 | 6.43 | 544 | 37 | 0.30 | 21.0 |
| 4 | 6.39 | 541 | 24 | 0.26 | 20.8 |
| 5 | 6.48 | 506 | 9 | 0.25 | 19.8 |
| 6 | 6.58 | 478 | 13 | 0.24 | 19.9 |
| 7 | DRY @ 6.5 | | | | |

Purged Gallons: 6.5 Time Sampled 1800

MW 10 Depth[a] 20 WL[b] 11.07 WC[a-b] 8.93 5CV 7.32

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.54 | 485 | 19 | 0.34 | 21.0 |
| 2 | DRY 1 1/2 | | | | |

Purged Gallons: 1.5 Time Sampled 1830

MW 11 Depth[a] 20 WL[b] 11.66 WC[a-b] 8.34 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.37 | 555 | 56 | 0.27 | 20.1 |
| 2 | 6.24 | 361 | 24 | 0.24 | 20.3 |
| 3 | 6.20 | 350 | 3 | 0.22 | 20.1 |
| 4 | DRY @ 3+ | | | | |

Purged Gallons: 3 Time Sampled 1900

MW 12 Depth[a] 20 WL[b] 11.73 WC[a-b] 8.27 5CV 6.78

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.24 | 556 | 31 | 0.25 | 20.4 |
| 2 | 6.22 | 362 | 32 | 0.21 | 20.9 |
| 3 | 6.25 | 353 | 32 | 0.22 | 20.5 |
| 4 | 6.20 | 355 | 43 | 0.27 | 19.6 |
| 5 | DRY | 4.5 | | | |

Purged Gallons: 4.5 Time Sampled 1930

MW 13 Depth[a] 20 WL[b] 11.97 WC[a-b] 8.03 5CV 6.55

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| 1 | 6.88 | 303 | 24 | 0.35 | 19.6 |
| 2 | 6.76 | 305 | 16 | 0.24 | 19.6 |
| 3 | DRY @ 2.5 | | | | |

Purged Gallons: 2.5 Time Sampled 2000

MW ____ Depth[a] ____ WL[b] ____ WC[a-b] ____ 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| | | | | | |

Purged Gallons: ____ Time Sampled ____

MW ____ Depth[a] ____ WL[b] ____ WC[a-b] ____ 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| | | | | | |

Purged Gallons: ____ Time Sampled ____

MW ____ Depth[a] ____ WL[b] ____ WC[a-b] ____ 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| | | | | | |

Purged Gallons: ____ Time Sampled ____

MW ____ Depth[a] ____ WL[b] ____ WC[a-b] ____ 5CV ____

| Gal | pH | Cond | ORP | DO | Temp |
|---|---|---|---|---|---|
| | | | | | |

Purged Gallons: ____ Time Sampled ____