FIRST QUARTER 2010 GROUNDWATER MONITORING REPORT

FORMER MOLALLA KWIK GAS 305 WEST MAIN STREET MOLALLA, OREGON DEQ FILE No.: 03-05-461

ECN PROJECT No. 05-106





December 7, 2010



ENVIRONMENTAL COMPLIANCE NORTHWEST

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December 7, 2010 ECN Project No. 05-106

Mr. Jason Powell. Powell Distributing Company 9125 North Burrage Portland, Oregon 97217

SUBJECT: First Quarter 2010

Groundwater Monitoring Report

Former Molalla Kwik Gas 305 West Main Street Molalla, Oregon

DEQ LUST File No.: 03-05-461

Dear Mr. Powell:

Environmental Compliance Northwest, Inc., (ECN) is pleased to submit this Groundwater Monitoring Report for the above referenced facility. We hope this report meets your needs at this time. If you should require additional information, please contact us at 503-372-9760.

Sincerely,

ENVIRONMENTAL COMPLIANCE NORTHWEST, INC.



John M. Day, RG Principal Geologist President

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1.0 INTRODUCTION

This report describes results of the first quarter 2010 groundwater monitoring and sampling activities conducted at the former Kwik Gas service station located at 305 West Main Street in Molalla, Oregon (Figure 1).

2.0 SITE DESCRIPTION

The site is located on the north side of West Main Street, approximately 100 feet west of Kennel Avenue near downtown Molalla and was formerly used as a fuel service station. The site is currently occupied by an automobile detail facility. A former service station building is located in the southeastern portion of the site. The UST cavity, formerly containing four 10,000-gallon tanks is located in the northwestern portion of the site and a former fuel dispenser island is located south of the station building. The site and surrounding area are relatively flat generally covered with gravel, with the exception of the former fuel dispenser island area, which is paved with asphalt. The locations of pertinent site features are shown on Figure 2.

3.0 BACKGROUND

The following background information was obtained from DEQ files, verbal discussions with Powell Distributing Company (Powell) personnel, and activities observed and conducted by ECN. The facility operated since at least 1977 until 2005 and consisted of a retail fueling and automotive repair facility. The former UST system consisted of three gasoline USTs and one diesel UST, located in the northwest corner of the site and one fuel dispenser island, located in the southern portion of the site (Figure 2). In April 2005, an apparent leak was detected in the underground product piping. A portion of the piping was uncovered and several small holes were observed in the piping.

In March 2005, ECN conducted initial site assessment activities consisting of drilling two hand auger borings adjacent to the fuel product piping. Subsurface soil sampling indicated the presence of petroleum hydrocarbon impact to soil in to the maximum explored depth of 8.5 feet below ground surface (bgs).

Also in March 2005, ECN conducted site assessment activities, including drilling a total of nine soil borings. Seven borings were completed adjacent and in the vanity of the underground product piping trench. Two of the borings were completed adjacent to the former fuel island. Petroleum hydrocarbons were detected in soil samples collected from each boring, with the exception of the boring completed located near the northwest corner of the former service station

building. Grab groundwater samples were collected from four of the borings. Petroleum hydrocarbons were detected in each grab groundwater sample collected.

Between September and October 2006, the UST system (consisting of four USTs and underground product piping) were decommissioned by removal. Two soil samples were collected from beneath each UST. In addition, one soil sample was collected from the south sidewall of the UST cavity and from beneath each of the three former fuel dispensers.

Petroleum hydrocarbons were not detected the soil samples collected from beneath the former USTs, with the exception of the southeastern portion of the former UST cavity, near the location where the product piping entered the cavity. Gasoline- and diesel-range hydrocarbons were detected in the soil samples collected from the former fuel dispensers (ECN, 2007).

A total of four monitoring wells (MW-1 through MW-4) were installed and two soil borings (B-101 and B-102) were completed in May 2007. The locations of the monitoring wells are shown on Figures 2 and 3. Borings B-101 and B-102 were drilled north and east of the existing building, respectively, to further define soil and groundwater impacts. Laboratory results indicated that the highest petroleum hydrocarbons were detected in the samples collected from MW-4, located adjacent to the former underground product piping. Lower petroleum hydrocarbon concentrations were detected in the other three monitoring wells, as well as in boring B-102 (ECN, 2010a).

Groundwater monitoring has been conducted at the site since the monitoring wells were installed.

4.0 FIELD ACTIVITIES

Field procedures for the first quarter 2010 groundwater monitoring and sampling were performed in accordance with DEQ guidelines. On March 30, 2010, depth to groundwater was measured and groundwater samples were collected monitoring wells MW-1 through MW-4. Prior to purging and sampling, the depth to water in the wells was measured from a permanent mark on top the well casing to the nearest 0.01-foot using an electronic water level indicator. The depth to water and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level (MSL). The survey data and historic groundwater elevation measurements collected through the first quarter 2010 monitoring event are presented in Table 1.

Prior to sample collection, monitoring wells were purged of at least three casing volumes. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The collected water sample was then transferred from the bailer into laboratory-supplied containers.

5.0 ANALYTICAL TEST METHODS

2010 collected during the first quarter Each groundwater sample monitoring event was analyzed for DEQ risk-based decision making (RBDM) volatile organic compounds (VOCs) by EPA Method 8260B. The RBDM VOCs include: benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1,2,4-trimethylbenzene (1,2,4-TMB); ethylene dibromide (EDB); ethylene dichloride (EDC); 1,3,5-trimethylbenzene (1,3,5-TMB); isopropylbenzene (IPB) methyl-tertiary butyl ether (MTBE); n-propylbenzene (NPB); and naphthalene. Each sample was also analyzed for diesel-range hydrocarbons (diesel) and lube oilrange petroleum hydrocarbons (lube oil) by Northwest Method NWTPH-Dx. Select groundwater samples were analyzed for dissolved lead by EPA Method 6010 and polynuclear aromatic hydrocarbons (PAHs) by DEQ Method 8270SIM.

6.0 FINDINGS

Following are the physical and chemical results for the first quarter 2010 groundwater monitoring and sampling activities at the site. Naphthalene results are reported on both Table 1 and 2. The differing results shown in groundwater samples are a result of separate extraction methods. The concentrations from the VOC analyses are reported on the analytical results map (Figure 3).

Physical Results

The depth to water in the monitoring wells, as measured on March 30, 2010, ranged from 3.42 to 8.74 feet below the top of well casings. The groundwater flow direction was interpreted to be to the southwest with an average hydraulic gradient of approximately 0.087 feet per foot. Compared to the fourth quarter 2009 monitoring data, groundwater elevations in the monitoring wells increased between 0.30 and 1.80 feet, with the exception of MW-4, that decreased 0.19 feet.

The groundwater elevation and flow direction data for the first quarter 2010 monitoring event are shown on Figure 2.

Chemical Results

MW-1 and MW-2: Diesel-, lube oil-, and gasoline-range hydrocarbons; and RBDM VOCs were not detected at or above the corresponding laboratory reporting limits.

MW-3: Diesel-range hydrocarbons (216 micrograms per liter [μ g/L]), lube oil-range hydrocarbons (235 μ g/L), gasoline-range hydrocarbons (477 μ g/L), IPB (2.58 μ g/L), and naphthalene (1.48 μ g/L) were detected.

MW-4: Diesel-range hydrocarbons (1,094 μ g/L); lube oil-range hydrocarbons (532 μ g/L); gasoline-range hydrocarbons (12,200 μ g/L); benzene (594 μ g/L); toluene (5.31 μ g/L); ethylbenzene (634 μ g/L); total xylenes (330.9 μ g/L); 1,2,4-TMB (530 μ g/L); 1,3,5-TMB (60.4 μ g/L); IPB (128 μ g/L); NPB (515 μ g/L); naphthalene (274 μ g/L); and dissolved lead (1.8 μ g/L) were detected. The following PAHs were also detected: acenaphthene (0.209 μ g/L); acenaphylene (0.122 μ g/L); fluorine (0.316 μ g/L); naphthalene (150 μ g/L); and phenanthrene (0.179 μ g/L).

The groundwater sampling results for the first quarter 2010 monitoring event are shown on Figure 3 and summarized in Tables 1 and 2.

7.0 RISK-BASED EVALUATION OVERVIEW

In 1999, the Oregon DEQ issued the *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* guidance document (DEQ, 1999). This guidance document listed Risk-Based Concentration (RBC) cleanup levels that are based on current and potential future land and water uses at a site. The RBC cleanup levels are periodically revised, the most recent being September 15, 2009.

A detailed assessment of potential exposure pathways has not yet been conducted for the site. Although a conceptual site model has not been completed, based on our current knowledge of site conditions, the potentially complete exposure pathways for groundwater include: 1) vapor intrusion into buildings (occupational); 2) volatilization to outdoor air (occupational); and 3) groundwater in an excavation for a construction or excavation worker. The potentially applicable RBCs are shown on Tables 1 and 2.

None of the groundwater samples collected during the first quarter 2010 monitoring event exceeded RBCs for the potentially complete groundwater exposure pathways.

8.0 SUMMARY AND CONCLUSIONS

The site was operated as a retail fueling facility until March 2005. An apparent petroleum hydrocarbon release from the underground product piping was reported to DEQ on March 15, 2005. The site is currently operated as automotive detailing facility and is an area of commercial development.

ECN conducted site assessment activities between March and April 2005, consisting of advancing hand soil borings, limited excavation of apparent impacted soil associated with the product piping release, and drilling a total nine soil borings. Soil and water samples collected during the site assessment activities indicated that both soil and the shallow water-bearing zone in the vicinity of the product piping were impacted by petroleum hydrocarbons.

The four USTs at the site were decommissioned by removal in October 2006. Petroleum hydrocarbon-impacted backfill material was encountered adjacent to the fill port of one the USTs. Analytical results of samples collected from beneath the former fuel dispensers indicated that residual diesel- and gasoline-range hydrocarbons were present in the southern portion of the site.

A total of four groundwater monitoring wells and two soil borings were completed at the site in May 2007. Analytical results from the groundwater samples collected indicated that petroleum hydrocarbons were present in each monitoring well, the highest levels reported were in MW-4

Based on historic groundwater flow direction data, it appears that the generalized shallow water-bearing zone flow direction varies between west-southwest and southwest.

Based on analytical results, none of groundwater samples during the first quarter 2010 sampling event exceed the potentially complete exposure pathways at the site.

9.0 REFERENCES

ECN, 2007. Site Assessment and UST Decommissioning Report, Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. April 17.

ECN, 2010a. Additional Site Assessment and Monitoring Installation Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. October 14.

ECN, 2010b. First Quarter 2008 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 1.

ECN, 2010c. Third Quarter 2008 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 2.

ECN, 2010d. First Quarter 2009 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 3.

ECN, 2010e. Second Quarter 2009 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 4.

ECN, 2010f. Third Quarter 2009 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 5.

ECN, 2010g. Fourth Quarter 2009 Groundwater Monitoring Report, Former Molalla Kwik Gas, 305 West Main Street, Molalla, Oregon, DEQ File No. 03-05-461. December 6.

Oregon Department of Environmental Quality, 1999 and 2003. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites (OAR 340-122-0205 through 0360). September 29, 1999, updated September 22, 2003.

Oregon Department of Environmental Quality, 2000. UST Cleanup Manual, Cleanup Rules for Leaking Petroleum UST Systems, OAR 340-122-0205 through 340-122-0360, and Associated Documents. Oregon Department of Environmental Quality, Portland, Oregon, December.

Oregon Department of Environmental Quality, 2009. Risk-Based Concentrations for Individual Chemicals. September 15.

10.0 LIMITATIONS

Environmental Compliance Northwest, Inc., has performed the work described in this report in accordance with the generally accepted standard of care existing in the State of Oregon at the time of the assessment. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface and historical conditions applicable to the study area. More extensive studies may be used to supplement the information presented in this report. Environmental Compliance Northwest, Inc., should be notified for additional consultation if Powell Distributing Company wishes to reduce uncertainties beyond the level associated with this assessment. Our assessment of the property also may change, as new data becomes available during additional site exploration, remediation, or development.

Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the report.

No warranty, express or implied is made.

TABLES

TABLE 1 Groundwater Analytical Results - TPH-Dx, TPH-G, RBDM VOCs, and Dissolved Lead Former Kwik Gas Station 305 West Main Street Molalla, Oregon ECN Project No. 05-106



	Date of	Casing	Depth to	Groundwater	Change in	TPH-	-Dx [1]	TPH-G	В	Т	E	X	1,2,4-TMB	EDB	EDC	1,3,5-TMB	IPB	MTBE	NPB	Naph- thalene	Dissolved Lead	LAB
Well I.D.	Sampling	Elevation (Feet)	Water (Feet)	Elevation (Feet)	Elevation (Feet)	Diesel	Lube Oil	[2]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[4]	
MVV-1	6/5/2007	94.77	13.82	80.95		247	116	624	40.5	7.16	51.2	67.4	9.34	ND<1.00	ND<1.00	5.98	2.95	ND<1.00	5.04	ND<1.00		SA
1010 0-1	3/30/2008	94.77	8.06	86.71	5.76	ND<245	ND<491	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/28/2008	94.77	17.41	77.36	-9.35	ND<243	ND<487	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/26/2009	94.77	9.54	85.23	7.87	ND<238	ND<476	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	6/30/2009	94.77	14.43	80.34	-4.89	ND<86.3	ND<216		0.910	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/29/2009	94.77	20.13	74.64	-5.7	ND<249	ND<498	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	12/26/2009	94.77	10.54	84.23	9.59	ND<243	ND<487	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/30/2010	94.77	8.74	86.03	1.8	ND<77.1	ND<193	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
MW-2	6/5/2007	93.73	9.36	84.37		237	ND<100	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
10100-2	3/30/2008	93.73	3.35	90.38	6.01	ND<248	ND<495	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/28/2008	93.73	11.10	82.63	-7.75	ND<242	ND<483	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/26/2009	93.73	3.50	90.23	7.6	ND<236	ND<473	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	6/30/2009	93.73	9.36	84.37	-5.86	ND<82.5	ND<206		ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/29/2009	93.73	14.09	79.64	-4.73	ND<485	ND<971	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50								****		SA
	12/26/2009	93.73	4.03	89.70	10.06	ND<275	ND<552	ND<100	ND<0.300	ND<0.500	ND<0.500	ND<1.50										SA
	3/30/2010	93.73	3.42	90.31	0.61	ND<77.8	ND<195	ND<100	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
MW-3	6/5/2007	93.44	6.65	86.79		ND<49.9	ND<49.9	363	ND<0.300	0.84	2.04	ND<1.50										SA
10100-3	3/30/2008	93.44	4.31	89.13	2.34	269	ND<485	589	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00		SA
	9/28/2008	93.44	6.46	86.98	-2.15	350	ND<541	787	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.00	ND<1.00	ND<1.00	ND<1.00	0.65	SA
	3/26/2009	93.44	4.62	88.82	1.84	277	ND<478	429	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.1	SA
		93.44	6.79	86.65	-2.17	194	ND<203		ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.21	ND<1.00	ND<1.00	ND<1.00	1.1	SA
	6/30/2009	93.44	8.96	84.48	-2.17	275	ND<482	631	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.26	ND<1.00	ND<1.00	ND<1.00	1.8	SA
	9/29/2009	93.44	4.39	89.05	4.57	336	ND<513	245	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	1.26	ND<1.00	ND<1.00	ND<1.00	0.96	SA
	12/26/2009 3/30/2010	93.44	4.09	89.35	0.3	216	235	477	ND<0.300	ND<1.00	ND<1.00	ND<3.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	2.58	ND<1.00	ND<1.00	1.48		SA
MW-4	6/5/2007	94.10	7.16	86.94		2,060	3,500	7.370	326	5.97	216	336.2	239	ND<1.00	ND<1.00	55	34.4	6.92	66.2	55.6	14	SA
10100-4	3/30/2008	94.10	4.29	89.81	2.87	2,050	ND<489	15,900	985	8.93	397	343.0	386	ND<1.00	ND<1.00	43.4	92.2	11.3	261	150	2.5	SA
	9/28/2008	94.10	7.69	86.41	-3.4	2,070	665	14,000	979	9.74	743	167.8	332	ND<1.00	ND<1.00	88.3	125	ND<1.00	460	766	0.34	SA
	3/26/2009	94.10	4.54	89.56	3.15	1,700	893	8,010	480	4.49	356	91.4	125	ND<1.00	ND<1.00	23.7	87.6	1.80	185	119	0.82	SA
	6/30/2009	94.10	7.65	86.45	-3.11	1,460	310		682	7.28	769	248.2	594	ND<1.00	ND<1.00	76.7	133	2.62	438	347	1.4	SA
	9/29/2009	94.10	12.75	81.35	-5.1	2,760	805	13,300	925	7.07	889	30.00	30.4	ND<1.00	ND<1.00	34.3	115	7.16	395	540	1.5	SA
	12/26/2009	94.10	4.36	89.74	8.39	2,730	1,020	21,100	397	4.84	435	361.2	451	ND<1.00	ND<1.00	25.5	114	1.43	245	509	ND<0.10	SA
	3/30/2010	94.10	4.55	89.55	-0.19	1,094	532	12,200	594	5.31	634	330.9	530	ND<1.00	ND<1.00	60.4	128	ND<1.00	515	274	1.8	SA
Risk-Based Conce	entrations [5]										医原质性	4 5 5	100 11 4		0.500	0.000	26	1.000,000	NE	16,000	NV	
Volatilization to C	Outdoor Air					>\$	NE	>S	14,000	>\$	41,000	>\$	>S	960	9,500	6,800	>S	1,000,000				
Occipational) Vapor Intrusion I	nto Buildings					>\$	NE	>\$	2,800	>\$	7,400	>\$	>\$	690	3,800	41,000	>\$	590,000	NE	10,000	NV	
Occupational) Groundwater in a	an Excavation					>8	NE	13,000	1,700	210,000	4,400	23,000	1,700	28	630	1,400	>\$	62,000	NE	500	>\$	
Construction and		(er)																		And house the		

ABBREVIATIONS:

- B: Benzene
- T: Toluene
- E: Ethylbenzene
 X: Total Xylenes

- MTBE: Metyl tertiary-butyl ether
 ND: Not detected at or above the indicated laboratory reporting limit

- NE: Not established by DEQ
 >S: The groundwater RBC exceeds the solubility limit.

 NV: This chemical is considered "nonvolatile" for purposes of the exposure calculations

Results are in micrograms per liter (µg/L)
(1) Nortwest Method NWTPH-Dx

- Northwest Method NWTPH-Gx
- EPA Method 8021B 0r 8260B
- EPA Method 6011
- Oregon Department of Environmental Quality (DEQ) Generic Risk Based Concentrations (RBCs)
- (1) (2) (3) (4) (5) SA BOLD Specialty Analytical
- Exceeds the RBC





Polynuclear Aromatic [1]		Acenaphthene	Acenapthylene	Anthracene	enz(a)anthracene	Benzo(a)pyrene	nzo(b)fluoranthene	enzo(g,h,l)perylene	enzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoroanthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	LAB
Sample Identification	Sample Date				В		Be	ğ	Be		Dii			<u> </u>				
MW-1	6/5/2007	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	ND<0.0503	2.81	ND<0.0503	ND<0.0503	SA
MW-2	6/5/2007	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	ND<0.0498	SA
,MW-3	6/5/2007	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	ND<0.0495	0.0792	ND<0.0495	0.287	ND<0.0495	ND<0.0495	SA
-	3/26/2009	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	ND<0.0479	0.211	ND<0.0479	ND<0.0479	SA
	6/30/2009	0.0572	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	0.124	ND<0.0477	0.734	ND<0.0477	ND<0.0477	SA
MW-4	6/5/2007	0.115	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	ND<0.0525	0.136	ND<0.0525	83.4	0.0630	ND<0.0525	SA
	3/30/2008	0.231	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	ND<0.0482	0.0868	0.482	ND<0.0482	115	0.415	0.0868	SA
	9/28/2008	0.203	0.0676	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	ND< 0.0483	0.126	0.261	ND< 0.0483	94.7	0.300	0.126	SA
	3/26/2009	0.138	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	ND<0.0429	0.138	ND<0.0429	ND<0.0429	56.9	0.0984	0.0591	SA
	6/30/2009	0.191	0.0765	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	ND<0.0478	0.229	ND<0.0478	179	0.143	0.0478	SA
	9/29/2009	0.172	0.0858	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	ND<0.0477	0.210	ND<0.0477	145	0.0953	ND<0.0477	SA
,	12/26/2009	0.282	0.126	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	ND<0.0523	0.366	ND<0.0523	200	0.209	ND<0.0523	SA
	3/30/2010	0.209	0.112	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	ND<0.0500	0.316	ND<0.0500	150	0.179	ND<0.0500	SA
Risk-Based Concentrat - Occ. Volatilization to - Occ. Vapor Intrusion - Groundwater in an Ex-	Outdoor Air Into buidlings xcavation	>S >S >S	NE NE NE	>\$ >\$ >\$	NV NV 9.1	NV NV 0.53	NV NV >S	NE NE NE	NV NV >S	NV NV >S	NV NV 0.21	NV NV >S	>S >S >S	NV NV >S	16,000 10,000 500	NE NE NE	NV NV >S	

ND not detected at or above the indicated laboratory reporting limit SA Specialty Analytical

μg/L Micrograms per Liter

[1] [2]

DEQ Method 8270SIM
Oregon Department of Environmental Quality (DEQ) Generic Risk Based Concentrations (RBCs)

NE

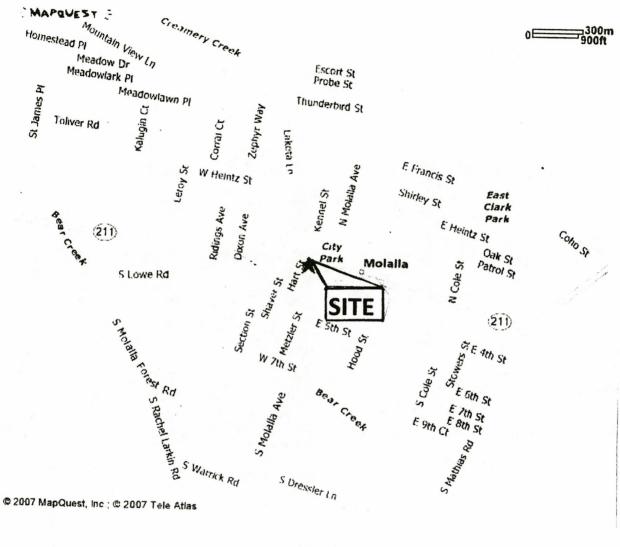
NV >S

(DEQ, 2009).

A Risk-Based Concentration has not been determined for this constituent
This chemical is considered "nonvolatile" for purposes of the exposure calculation
This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present. If solubility is not listed, data was not listed in Appendix D of the DEQ RBDM guidance document (DEQ, 2009).

FIGURES

1



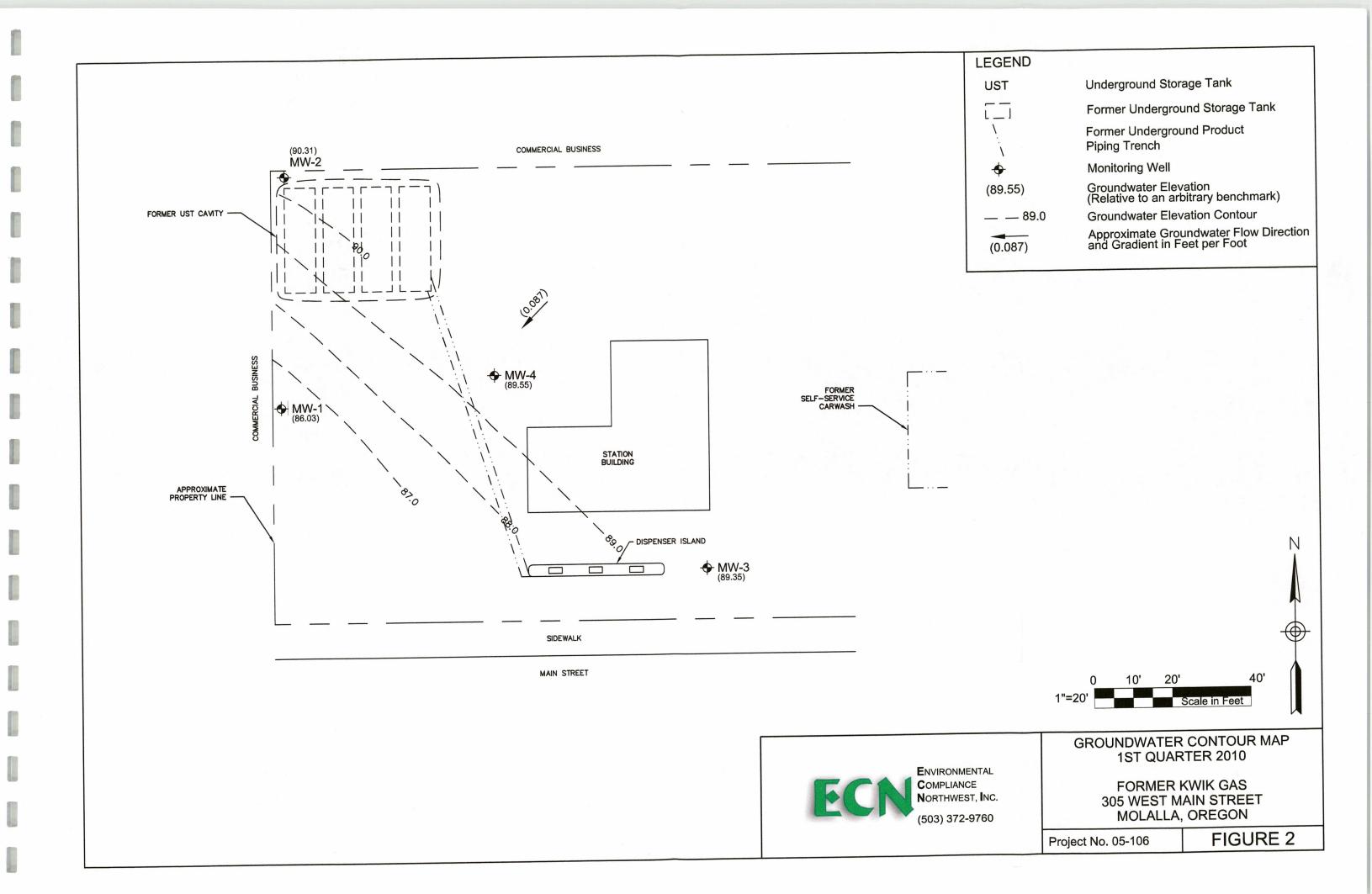
© 2007 MapQuest, Inc.; © 2007 Tele Atlas

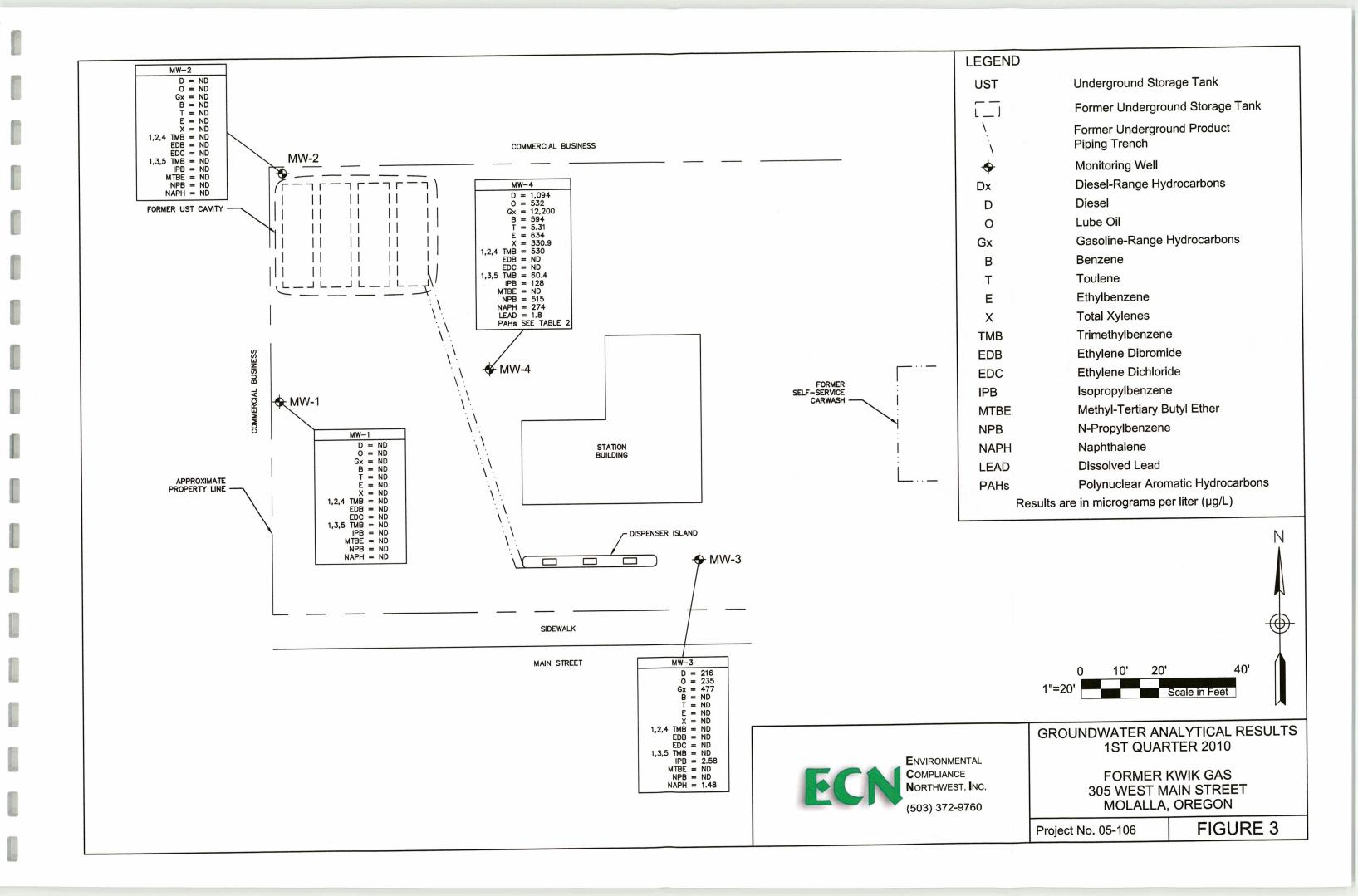
VICINITY MAP

MOLALLA KWIK GAS 305 WEST MAIN STREET MOLALLA, OREGON

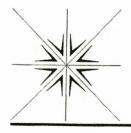
ECNW Proj. No. 05-106

FIGURE 1





APPENDIX A



11711 SE Capps Road Clackamas, OR 97015 (503) 607-1331 Fax (503) 607-1336

April 08, 2010

John Day
Environmental Compliance Northwest, Inc.
P.O. Box 230163

Portland, OR 97281

TEL: (503) 372-9760 FAX: (503) 213-9980

RE: Powell-Molalla / 05-106

Dear John Day:

Order No.: 1004009

Specialty Analytical received 4 samples on 4/1/2010 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Project Manager

Technical Review

Date: 08-Apr-10

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

1004009

Project:

Powell-Molalla / 05-106

Lab ID:

1004009-01

Client Sample ID: MW-1

Collection Date: 3/30/2010 9:30:00 AM

					CNDWATER
Analyses	Result	Limit	Qual Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			Amaluat
Diesel	ND	0.0771	mg/L		Analyst: jrp 4/5/2010
Lube Oil	ND	0.193	mg/L		4/5/2010
Surr: o-Terphenyl	70.0	50-150	%REC	1	4/5/2010
WTPH-GX		NWTPH-GX			
Gasoline	ND	100	ug/l		Analyst: jrp
Surr: 4-Bromofluorobenzene	67.8	50-150	μg/L %REC	1	4/5/2010 4/5/2010
OLATILE ORGANICS BY GC/MS		SW8260B			
1,2,4-Trimethylbenzene	ND	1.00			Analyst: kmn
1,2-Dibromoethane	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
1,2-Dichloroethane	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
1,3,5-Trimethylbenzene	ND		μg/L 	1	4/2/2010 3:57:00 PM
Benzene	ND	1.00	µg/L	1	4/2/2010 3:57:00 PM
Ethylbenzene		0.300	µg/L	1	4/2/2010 3:57:00 PM
Isopropylbenzene	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
m,p-Xylene	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
Methyl tert-butyl ether	ND	2.00	µg/L	. 1	4/2/2010 3:57:00 PM
n-Propylbenzene	ND	1.00	µg/L	1	4/2/2010 3:57:00 PM
Naphthalene	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
o-Xylene	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
Foluene	ND	1.00	μg/L	1	4/2/2010 3:57:00 PM
Surr: 1,2-Dichloroethane-d4	94.6	72.2-129	%REC	1	4/2/2010 3:57:00 PM
Surr: 4-Bromofluorobenzene	102	73.5-125	%REC	1	4/2/2010 3:57:00 PM
Surr: Dibromofluoromethane	92.2	58.8-148	%REC	1	4/2/2010 3:57:00 PM
Surr: Toluene-d8	105	79.8-137	%REC	1	4/2/2010 3:57:00 PM

Date: 08-Apr-10

CLIENT:

Environmental Compliance Northwest, Inc.

Lab Order:

1004000

Project:

Powell-Molalla / 05-106

Lab ID:

1004009-02

Client Sample ID: MW-2

Collection Date: 3/30/2010 9:00:00 AM

Analyses	Result	Limit (Qual Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			Analyst: jrp
Dies el	ND	0.0778	mg/L	1	4/5/2010
Lube Oil	ND	0.195	mg/L	1	4/5/2010
Surr: o-Terphenyl	73.1	50-150	%REC	1	4/5/2010
NWTPH-GX		NWTPH-GX			Analyst: irp
Gasoline	ND	100	μg/L	1	4/5/2010
Surr: 4-Bromofluorobenzene	69.1	50-150	%REC	1	4/5/2010
OLATILE ORGANICS BY GC/MS		SW8260B			Analyst: kmn
1,2,4-Trimethylbenzene	ND	1.00	µg/L	1	4/2/2010 4:31:00 PM
1,2-Dibromoethane	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
1,2-Dichloroethane	ND	1.00	µg/L	1	4/2/2010 4:31:00 PM
1,3,5-Trimethylbenzene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
Benzene	ND	0.300	µg/L	1	4/2/2010 4:31:00 PM
Ethylbenzene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
Isopropylbenzene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
m,p-Xylene	ND	2.00	μg/L	1	4/2/2010 4:31:00 PM
Methyl tert-butyl ether	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
n-Propylbenzene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
Naphthalene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
o-Xylene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
Toluene	ND	1.00	μg/L	1	4/2/2010 4:31:00 PM
Surr: 1,2-Dichloroethane-d4	95.0	72.2-129	%REC	1	4/2/2010 4:31:00 PM
Surr: 4-Bromofluorobenzene	100	73.5-125	%REC	1	4/2/2010 4:31:00 PM
Surr: Dibromofluoromethane	91.5	58.8-148	%REC	1	4/2/2010 4:31:00 PM
Surr: Toluene-d8	107	79.8-137	%REC	1	4/2/2010 4:31:00 PM

Date: 08-Apr-10

CLIENT:

Environmental Compliance Northwest, Inc.

Client Sample ID: MW-3

Lab Order:

1004009

1004009-03

Collection Date: 3/30/2010 10:30:00 AM

Project: Lab ID: Powell-Molalla / 05-106

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX			Analyst: jrp
Diesel	0.216	0.0770	mg/L	1	4/5/2010
Lube Oil	0.235	0.192	mg/L	1	4/5/2010
Surr: o-Terphenyl	78.0	50-150	%REC	1	4/5/2010
NWTPH-GX		NWTPH-GX			Analyst: jrp
Gasoline	477	100	μg/L	1	4/5/2010
Surr: 4-Bromofluorobenzene	78.4	50-150	%REC	1	4/5/2010
VOLATILE ORGANICS BY GC/MS		SW8260B			Analyst: kmn
1,2,4-Trimethylbenzene	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
1,2-Dibromoethane	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
1,2-Dichloroethane	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
1,3,5-Trimethylbenzene	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
Benzene	ND	0.300	μg/L	1	4/2/2010 11:23:00 PM
Ethylbenzene	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
Isopropylbenzene	2.58	1.00	µg/L	1	4/2/2010 11:23:00 PM
m,p-Xylene	ND	2.00	µg/L	1	4/2/2010 11:23:00 PM
Methyl tert-butyl ether	ND	1.00	µg/L	1	4/2/2010 11:23:00 PM
n-Propylbenzene	ND	1.00	μg/L	1	4/2/2010 11:23:00 PM
Naphthalene	1.48	1.00	µg/L	1	4/2/2010 11:23:00 PM
o-Xylene	ND	1.00	µg/L	1	4/2/2010 11:23:00 PM
Toluene	ND	1.00	µg/L	1	4/2/2010 11:23:00 PM
Surr: 1,2-Dichloroethane-d4	98.0	72.2-129	%REC	1	4/2/2010 11:23:00 PM
Surr: 4-Bromofluorobenzene	94.1	73.5-125	%REC	1	4/2/2010 11:23:00 PM
Surr: Dibromofluoromethane	97.2	58.8-148	%REC	1	4/2/2010 11:23:00 PM
Surr: Toluene-d8	95.6	79.8-137	%REC	1	4/2/2010 11:23:00 PM

CLIENT: Environmental Compliance Northwest, Inc.

Lab Order: 1004009

Project:

Powell-Molalla / 05-106

Lab ID: 1004009-04

Date: 08-Apr-10

Client Sample ID: MW-4

Collection Date: 3/30/2010 11:30:00 AM

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: jrp
Diesel	1.94	0.0798	A1,L	mg/L	1	4/5/2010
Lube Oil	0.532	0.200		mg/L	1	4/5/2010
Surr: o-Terphenyl	77.5	50-150		%REC	1	4/5/2010
NWTPH-GX		NWTPH-GX				
Gasoline	12200	1000		μg/L	10	Analyst: jrp
Surr: 4-Bromofluorobenzene	76.1	50-150		%REC	10	4/5/2010 4/5/2010
DISSOLVED METALS BY ICP/MS		CIA/COOO			10	4/3/2010
Lead	1.8	SW6020			and the second	Analyst: zau
		0.10		ug/L	1	4/5/2010 5:59:00 PM
OW LEVEL PAH BY GC/MS OARSIM	(8270C)	8270SIM				Analyst: bda
Acenaphthene	0.209	0.0500		µg/L	1	4/2/2010 5:29:00 PM
Acenaphthylene	0.112	0.0500		μg/L	1	4/2/2010 5:29:00 PM
Anthracene	ND	0.0500		µg/L	1	4/2/2010 5:29:00 PM
Benz(a)anthracene	ND	0.0500		µg/L	1	4/2/2010 5:29:00 PM
Benzo(a)pyrene	ND	0.0500	- 1	ug/L	1	4/2/2010 5:29:00 PM
Benzo(b)fluoranthene	ND	0.0500	,	ug/L	1	4/2/2010 5:29:00 PM
Benzo(g,h,i)perylene	ND	0.0500	ļ	ıg/L	1	4/2/2010 5:29:00 PM
Benzo(k)fluoranthene	ND	0.0500	1	ıg/L	1	4/2/2010 5:29:00 PM
Chrysene	ND	0.0500	1	ıg/L	1	4/2/2010 5:29:00 PM
Dibenz(a,h)anthracene	ND	0.0500	μ	ıg/L	1	4/2/2010 5:29:00 PM
Fluoranthene	ND	0.0500	μ	ıg/L	1	4/2/2010 5:29:00 PM
Fluorene	0.316	0.0500	μ	g/L	1	4/2/2010 5:29:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0500	μ	g/L	1	4/2/2010 5:29:00 PM
Naphthalene	150	0.482	μ	g/L	10	4/5/2010 10:11:00 AM
Phenanthrene	0.179	0.0500	μ	g/L	1	4/2/2010 5:29:00 PM
Pyrene	ND	0.0500	μ	g/L	1	4/2/2010 5:29:00 PM
Surr: 2-Fluorobiphenyl	70.8	18.6-106	%	REC	1	4/2/2010 5:29:00 PM
Surr: Nitrobenzene-d5	67.0	17-130	%	REC	10	4/5/2010 10:11:00 AM
Surr: p-Terphenyl-d14	94.9	39.6-131	%	REC	1	4/2/2010 5:29:00 PM
DLATILE ORGANICS BY GC/MS	5	W8260B				Analyst: I
,2,4-Trimethylbenzene	530	5.00	μο	1/L	5	Analyst: kmn 4/3/2010 3:23:00 AM
,2-Dibromoethane	ND	1.00	μg		1	4/3/2010 3:58:00 AM
,2-Dichloroethane	ND	1.00	μg		1	4/3/2010 3:58:00 AM 4/3/2010 3:58:00 AM
,3,5-Trimethylbenzene	60.4	1.00	μg		1	
enzene	594	1.50	μд		5	4/3/2010 3:58:00 AM
thylbenzene	634	5.00	рg		5	4/3/2010 3:23:00 AM
opropylbenzene	128	1.00	рg			4/3/2010 3:23:00 AM
,p-Xylene	259	2.00	μg		1	4/3/2010 3:58:00 AM
lethyl tert-butyl ether	ND	1.00	hg,		1	4/3/2010 3:58:00 AM
Propylbenzene	515	5.00	µg/		1 5	4/3/2010 3:58:00 AM 4/3/2010 3:23:00 AM

Date: 08-Apr-10

CLIENT:

Environmental Compliance Northwest, Inc.

Client Sample ID: MW-4

Lab Order:

1004009

1004009-04

Collection Date: 3/30/2010 11:30:00 AM

Project: Lab ID:

Powell-Molalla / 05-106

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B			Analyst: kmn
Naphthalene	274	5.00	μg/L	5	4/3/2010 3:23:00 AM
o-Xylene	71.9	1.00	μg/L	1	4/3/2010 3:58:00 AM
Toluene	5.31	1.00	μg/L	1	4/3/2010 3:58:00 AM
Surr: 1,2-Dichloroethane-d4	99.2	72.2-129	%REC	1	4/3/2010 3:58:00 AM
Surr: 4-Bromofluorobenzene	93.6	73.5-125	%REC	1	4/3/2010 3:58:00 AM
Surr: Dibromofluoromethane	99.7	58.8-148	%REC	1	4/3/2010 3:58:00 AM
Surr: Toluene-d8	94.2	79.8-137	%REC	1	4/3/2010 3:58:00 AM

CLIENT:

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

Date: 08-Apr-10

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

, ,,-		TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666823
	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
	47.56	0.10 50 0	95.1 70 130 0	0
_		TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666824
	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
	50.18	0.10 50 0	100 70 130 47.56	5.36 20
		TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666822
	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
	ND	0.10 0 0	0 0 0 0	0 20
		TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666819
	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
	47.05	0.10 50 0	94.1 90 110 0	0
		TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666826
	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
	46.85	0.10 50 0	93.7 90 110 0	0
	Z Batch ID: 22-03AMSD SampType Z Batch ID: 22-03ADUP SampType: Z Batch ID: SampType: Z SampType:	Z Batch ID: 25307 Result 47.56 22-03AMSD SampType: MSD Z Batch ID: 25307 Result 50.18 22-03ADUP SampType: DUP Z Batch ID: 25307 Result ND SampType: CCV Batch ID: 25307 Result 47.05 SampType: CCV Batch ID: 25307 Result 47.05 SampType: CCV Batch ID: 25307 Result 47.05	Batch ID: 25307 TestNo: SW6020	Z Batch ID: 25307 TestNo: SW6020 Analysis Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 47.56 0.10 50 0 95.1 70 130 0 22-03AMSD SampType: MSD TestCode: 6020_WDISS Units: ug/L Prep Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 50.18 0.10 50 0 100 70 130 47.56 22-03ADUP SampType: DUP TestCode: 6020_WDISS Units: ug/L Prep Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 22-03ADUP SampType: DUP TestCode: 6020_WDISS Units: ug/L Prep Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val ND 0.10 0 0 0 0 0 0 0 0 SampType: CCV TestCode: 6020_WDISS Units: ug/L Prep Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 47.05 0.10 50 0 94.1 90 110 0 SampType: CCV TestCode: 6020_WDISS Units: ug/L Prep Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 47.05 0.10 50 0 94.1 90 110 0 SampType: CCV TestCode: 6020_WDISS Units: ug/L Prep Date: Analysis Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 47.05 0.10 50 0 94.1 90 110 0 SampType: CCV TestCode: 6020_WDISS Units: ug/L Prep Date: Analysis Date: 4/5/2010 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 46.85 0.10 SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_WDISS

Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 25307	TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Run ID: ICPMS_100405C SeqNo: 666833	
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Lead	46.24	0.10 50 0	92.5 90 110 0	0
Sample ID: ICB-25307 Client ID: ZZZZZ	SampType: ICB Batch ID: 25307	TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666820
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Lead	ND	0.10 0 0	0 0 0 0	0
Sample ID: ICV Client ID: ZZZZZ	SampType: ICV Batch ID: 25307	TestCode: 6020_WDISS Units: ug/L TestNo: SW6020	Prep Date: Analysis Date: 4/5/2010	Run ID: ICPMS_100405C SeqNo: 666818
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Lead	46.57	0.10 50 0	93.1 90 110 0	0

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

J - Analyte detected below quantitation limits

ANALYTICAL QC SUMMARY REPORT

Page 3 of 10

TestCode: 8260_W

Sample ID: MB-25304 Client ID: ZZZZZ	SampType: Batch ID:			de: 8260_W No: SW8260B	Units: µg/L		Prep Date Analysis Date			Run ID: 597 SeqNo: 666	_	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	1.00									
1,2-Dibromoethane		ND	1.00									
1,2-Dichloroethane		ND	1.00									
1,3,5-Trimethylbenzene		ND	1.00									
Benzene		ND	0.300									
Ethylbenzene		ND	1.00									
sopropylbenzene		ND	1.00									
m,p-Xylene		ND	2.00									
Methyl tert-butyl ether		ND	1.00									
n-Propylbenzene		ND	1.00									
Naphthalene		0.72	1.00									
o-Xylene		ND	1.00									J
Toluene		ND	1.00									
Surr: 1,2-Dichloroethane-d4		96.83	0	100	0	96.8	72.2	129	0			
Surr: 4-Bromofluorobenzene		100.1	0	100	0	100	73.5	125	0	0		
Surr: Dibromofluoromethane		92.16	0	100	0	92.2	58.8	148	0	0		
Surr: Toluene-d8		94.08	0	100	0	94.1	79.8	137	0	0		
Sample ID: LCS-25304	SampType:	LCS	TestCo	de: 8260_W	Units: µg/L		Prep Date	: 4/1/2010)	Run ID: 597	31 1004024	
Client ID: ZZZZZ	Batch ID:	25304	Testi	No: SW8260B			Analysis Date			SeqNo: 666		•
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		45.36	0.300	40	0	113	77.9	125	0	0		
Toluene		39.36	1.00	40	0	98.4	74.6	119	0	0		
Sample ID: 1004008-01BMS	SampType:	MS	TestCo	de: 8260_W	Units: µg/L		Prep Date	: 4/1/2010		Run ID: 597	31 1004024	
Client ID: ZZZZZ	Batch ID:	25304		No: SW8260B			Analysis Date			SeqNo: 666		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		43.12	0.300	40	0	108	71.5	118	0			
Toluene		38.2	1.00	40	0	95.5	79.6	121	0	0		

R - RPD outside accepted recovery limits

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 1004008-01BMSD Client ID: ZZZZZ	SampType: Batch ID:			e: 8260_W o: SW8260B	Units: µg/L		Prep Date			Run ID: 5973 SeqNo: 6666		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Toluene		42.97 36.91	0.300 1.00	40 40	0 0	107 92.3	71.5 79.6	118 121	43.12 38.2	0.348 3.43	20 20	-
Sample ID: CCV-25304 Client ID: ZZZZZ	SampType: Batch ID:			e: 8260_W o: SW8260B	Units: µg/L		Prep Date Analysis Date		0	Run ID: 597 3 SeqNo: 666 5		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene Foluene		39.71 38.2	1.00 1.00	40 40	0	99.3 95.5	80 80	120 120	0	0		
Sample ID: CCV-25304 Client ID: ZZZZZ	SampType: Batch ID:			e: 8260_W o: SW8260B	Units: µg/L		Prep Date Analysis Date		0	Run ID: 5973 SeqNo: 6665		
Analyte	1.51	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene Foluene		44.19 42.11	1.00 1.00	40 40	0	110 105	80 80	120 120	0	0		

CLIENT: Environmental Compliance Northwest, Inc.

Work Order: 1004009

Project: Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: MB-25312 Client ID: ZZZZZ	SampType: N Batch ID: 2			le: NWTPHD		g/L	Prep Da Analysis Da	ite: 4/5/201		Run ID: GC SeqNo: 660	C-M_100405A 6775	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	(0.0188	0.0800									J
Lube Oil		ND	0.200									
Surr: o-Terphenyl		0.153	0	0.2	0	76.5	50	150	0	0		
Sample ID: MB-25312	SampType: N	MBLK	TestCoo	le: NWTPHD	XLL Units: m	g/L	Prep Da	ite: 4/5/201	0	Run ID: GC	-M_100405A	
Client ID: ZZZZZ	Batch ID: 2	25312	TestN	lo: NWTPH-D				te: 4/6/201		SeqNo: 666	-	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hydraulic Oil	(0.1703	0.200									J
Sample ID: LCS-25312	SampType: L	LCS	TestCoo	le: NWTPHD	XLL Units: m	g/L	Prep Da	te: 4/5/201	0	Run ID: GC	-M 100405A	
Client ID: ZZZZZ	Batch ID: 2	25312	TestN	lo: NWTPH-E	Эx		Analysis Da	te: 4/5/201	0	SeqNo: 666	_	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		0.8325	0.0800	1	0	83.2	60.7	121	0	0		
Lube Oil		0.872	0.200	1	0	87.2	64	126	0	0		
Sample ID: LCSD-25312	SampType: L	LCSD	TestCoo	e: NWTPHD	XLL Units: m	g/L	Prep Da	te: 4/5/201	0	Run ID: GC	-M_100405A	
Client ID: ZZZZZ	Batch ID: 2	25312	TestN	lo: NWTPH-D	Οx		Analysis Da	te: 4/5/201	0	SeqNo: 666		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		0.9085	0.0800	1	0	90.8	60.7	121	0.8325	8.74	20	
Lube Oil		1.038	0.200	1	0	104	64	126	0.872	17.4	20	
Sample ID: CCV	SampType: 0	ccv	TestCod	le: NWTPHD	XLL Units: m	g/L	Prep Da	te:		Run ID: GC	-M_100405A	
Client ID: ZZZZZ	Batch ID: 2	25312	TestN	lo: NWTPH-E	Ox		Analysis Da	te: 4/5/201	0	SeqNo: 666		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		6.117	0.0800	6.15	0	99.5	85	115	0	0		
Lube Oil		2.884	0.200	3.007	0	95.9	85	115	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHDXLL_W

Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 25312	TestCode: NWTPHDXLL Units: mg/L TestNo: NWTPH-Dx	Prep Date: Analysis Date: 4/5/2010	Run ID: GC-M_100405A SeqNo: 666793		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
Diesel Lube Oil	8.231 3.696	0.0800 8.2 0 0.200 4.01 0	100 85 115 0 92.2 85 115 0	0		
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 25312	TestCode: NWTPHDXLL Units: mg/L TestNo: NWTPH-Dx	Prep Date: Analysis Date: 4/6/2010	Run ID: GC-M_100405A SeqNo: 666857		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
Hydraulic Oil	2.864	0.200 3 0	95.5 85 115 0	0		

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: NWTPHGX_W

Sample ID: MB-25315 Client ID: ZZZZZ	SampType: MBLK Batch ID: 25315	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: GC-I_100405C SeqNo: 666715
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline Surr: 4-Bromofluorobenzer	ND e 72.4	100 0 100 0	72.4 50 150 0	0
Sample ID: LCS-25315 Client ID: ZZZZZ	SampType: LCS Batch ID: 25315	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: GC-I_100405C SeqNo: 666714
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	2638	100 2500 0	106 74.4 128 0	0
Sample ID: 1004009-01BDU Client ID: MW-1	SampType: DUP Batch ID: 25315	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: 4/5/2010 Analysis Date: 4/5/2010	Run ID: GC-I_100405C SeqNo: 666718
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	ND	100 0 0	0 0 0 12.33	0 20
Sample ID: CCV Client ID: ZZZZZ	SampType: CCV Batch ID: 25315	TestCode: NWTPHGX_ Units: µg/L TestNo: NWTPH-Gx	Prep Date: Analysis Date: 4/5/2010	Run ID: GC-I_100405C SeqNo: 666722
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Gasoline	3040	100 3000 0	101 80 120 0	0

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: MB-25296	SampType: MBLK		e: PAHLL_W	Units: µg/L		Prep Date			Run ID: 597			
Client ID: ZZZZZ	Batch ID: 25296	TestN	TestNo: 8270SIM			Analysis Date	4/2/2010	,	SeqNo: 666359			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Acenaphthene	ND	0.0500	7									
Acenaphthylene	ND	0.0500										
Anthracene	ND	0.0500										
Benz(a)anthracene	0.01643	0.0500									J	
Benzo(a)pyrene	0.00944	0.0500									J	
Benzo(b)fluoranthene	ND	0.0500										
Benzo(g,h,i)perylene	0.01642	0.0500									J	
Benzo(k)fluoranthene	0.01407	0.0500									J	
Chrysene	ND	0.0500										
Dibenz(a,h)anthracene	0.01628	0.0500									J	
Fluoranthene	ND	0.0500										
Fluorene	0.00195	0.0500									J	
Indeno(1,2,3-cd)pyrene	0.01386	0.0500									J	
Naphthalene	ND	0.0500										
Phenanthrene	ND	0.0500										
Pyrene	ND	0.0500										
Surr: 2-Fluorobiphenyl	10.77	1.00	20	0	53.9	18.6	106	0	0			
Surr: Nitrobenzene-d5	11.82	1.00	20	0	59.1	17	130	0	0			
Surr: p-Terphenyl-d14	17.23	1.00	20	0	86.2	39.6	131	0	0			
Sample ID: LCS-25296	SampType: LCS	TestCo	de: PAHLL_W	Units: μg/L		Prep Dat	e: 4/1/201	10	Run ID: 59	75Q_100402	В	
Client ID: ZZZZZ	Batch ID: 25296	Test	No: 8270SIM			Analysis Dat	e: 4/2/201	10	SeqNo: 66	6357		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua	
Acenaphthene	2.962	0.0500	5	0	59.2	35.1	100	0	0			
Benzo(g,h,i)perylene	4.062	0.0500	5	0.01642	80.9	20.8	120	0	0			
Chrysene	3.576	0.0500	5	0	71.5	39.1	119	0	0			
Naphthalene	2.939	0.0500	5	0	58.8	25.6	106	0	0			
Phenanthrene	3.027	0.0500	5	0	60.5	38.1	106	0	0			
Pyrene	3.429	0.0500	5	0	68.6	41.3	118	0	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

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Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: LCSD-25296	SampType: Batch ID:			e: PAHLL_W	Units: µg/L		Prep Date Analysis Date			Run ID: 597 SeqNo: 666	'5Q_100402B 358	3
Client ID: ZZZZZ	Batch ID:	25296	I estiv	TestNo: 8270SIM			Analysis But	o				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	4 . 2	3.096	0.0500	5	0	61.9	35.1	100	2.962	4.43	20	
Benzo(g,h,i)perylene		4.088	0.0500	5	0.01642	81.4	20.8	120	4.062	0.639	20	
Chrysene		3.62	0.0500	5	0	72.4	39.1	119	3.576	1.23	20	
Naphthalene		2.964	0.0500	5	0	59.3	25.6	106	2.939	0.866	20	
Phenanthrene		3.212	0.0500	5	0	64.2	38.1	106	3.027	5.91	20	
Pyrene		3.569	0.0500	5	0	71.4	41.3	118	3.429	4.01	20	
Sample ID: CCV-25296	SampType:	CCV	TestCoo	ie: PAHLL_W	Units: µg/L		Prep Da	te:		Run ID: 59	75Q_100402E	3
Client ID: ZZZZZ	Batch ID:		Test	lo: 8270SIM		Analysis Date: 4/2/201			10 SeqNo: 666356			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		4.991	0.0500	5	0	99.8	70	130	0	0		
Acenaphthylene		5.306	0.0500	5	0	106	70	130	0	0		
Anthracene		4.857	0.0500	5	0	97.1	70	130	0	0		
Benz(a)anthracene		5.763	0.0500	5	0	115	70	130	0	0		
Benzo(a)pyrene		5.531	0.0500	5	0	111	70	130	0	0		
Benzo(b)fluoranthene		5.648	0.0500	5	0	113	70	130		0		
Benzo(g,h,i)perylene		5.563	0.0500	5	0	111	70	130		0		
Benzo(k)fluoranthene		4.948	0.0500	5	0	99	70	130		0		
Chrysene		4.709	0.0500	5	0	94.2	70	130	0	0		
Dibenz(a,h)anthracene		5.113	0.0500	5	0	102	70	130	0	0		
Fluoranthene		4.971	0.0500	5	0	99.4	70	130	0	0		
Fluorene		5.059	0.0500	5	0	101	70	130	0	0		
Indeno(1,2,3-cd)pyrene		5.116	0.0500	5	0	102	70			0		
Naphthalene		4.488	0.0500	5	0	89.8	70	130	0	0		
Phenanthrene		4.605	0.0500	5	0	92.1	70	130	0	0		
Pyrene		4.8	0.0500	5	0	96	70	130	0	0		

Environmental Compliance Northwest, Inc.

Work Order:

1004009

Project:

Powell-Molalla / 05-106

ANALYTICAL QC SUMMARY REPORT

TestCode: PAHLL_W

Sample ID: CCV-25296	SampType: CCV	TestCod		Prep Dat	e:	Run ID: 5975Q_100402B					
Client ID: ZZZZZ	Batch ID: 25296	TestNo: 8270SIM				Analysis Dat	e: 4/5/201	SeqNo: 666543			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	5.12	0.0500	5	0	102	70	130	0	0		
Acenaphthylene	5.26	0.0500	5	0	105	70	130	0	0		
Anthracene	4.78	0.0500	5	0	95.6	70	130	0	0		
Benz(a)anthracene	5.89	0.0500	5	0	118	70	130	0	0		
Benzo(a)pyrene	5.59	0.0500	5	0	112	70	130	0	0		
Benzo(b)fluoranthene	5.72	0.0500	5	0	114	70	130	0	0		
Benzo(g,h,i)perylene	5.64	0.0500	5	0	113	70	130	0	0		
Benzo(k)fluoranthene	4.98	0.0500	5	0	99.6	70	130	0	0		
Chrysene	4.74	0.0500	5	0	94.8	70	130	0	0		
Dibenz(a,h)anthracene	5.21	0.0500	5	0	104	70	130	0	0		
Fluoranthene	4.98	0.0500	5	0	99.6	70	130	0	0		
Fluorene	5.18	0.0500	5	0	104	70	130	0	0		
Indeno(1,2,3-cd)pyrene	5.22	0.0500	5	0	104	70	130	0	0		
Naphthalene	4.79	0.0500	5	0	95.8	70	130	0	0		
Phenanthrene	4.62	0.0500	5	0	92.4	70	130	0	0		
Pyrene	4.77	0.0500	5	0	95.4	70	130	0	0		

KEY TO FLAGS

This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified A against gasoline calibration standards. This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified A1against diesel calibration standards. This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified A2 against a lube oil calibration standard. The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from A3 another hydrocarbon type. The blank exhibited a positive result greater than the reporting limit for this compound. B See Case Narrative. CN Result is based from a dilution. D Result exceeds the calibration range for this compound. The result should be considered as estimate. E The positive result for this hydrocarbon is due to single component contamination. The product does not match any F hydrocarbon in the fuels library. Sample was analyzed outside recommended hold time. H At clients request, sample was analyzed outside recommended hold time. HT The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration. J Diesel result is biased high due to amount of Oil contained in the sample. K Diesel result is biased high due to amount of Gasoline contained in the sample. L Oil result is biased high due to amount of Diesel contained in the sample. M Gasoline result is biased high due to amount of Diesel contained in the sample. N Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant. MC Result is outside control limits due to matrix interference. MI Value determined by Method of Standard Addition. MSA Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements. O Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels. P Detection levels elevated due to sample matrix. Q RPD control limits were exceeded. R Duplicate failed due to result being at or near the method-reporting limit. RF Matrix spike values exceed established QC limits, post digestion spike is in control. RP

Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA

The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

requirements.

S

SC

Recovery is outside control limits.

CHAIN OF CUSTODY RECORD

Contact Person/Project Manager John Val

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Page	1	of i	ı
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Specialty Analytical 11711 SE Capps Road

11711 SE Capps Road Clackamas, OR 97015 Phone: 503-607-1331 Fax: 503-607-1336 Collected By: Signature Printed 17 19 19 19 19 19 19 19 19 19 19 19 19 19							, , ,	Phone Projec	at No.	05.	97 -100 OR	60	Proj WA_	5 16] 728 / Fax 7 (7) ect Name Provide Other	9480 U-Ma	lalla
Signature Printed Turn Around Time FANormal 5-7 Business Days □ Rush Specify Rush Analyses Must Be Scheduled With The Lab In Advance				No. of Containers	& Dm VOCs	10H-6×	PH. Ox	1445	Analyse Your	S		Ī	Lab Job No. 100	ceipt Containers? Y	/N	
Date 3/30/10	Time 0930 0900 1030 1130	5amp Mw-1 Mw-2 Mw-3 Mw-4	ole I.D.	Matrix W	5 6	K X X X	XXXX	XXXX	X	<i>X</i>				Run Photo	ppm if is	Lab I.D.
	daimed, Samp	ples Will Be Disposed lays subject to storage for Yellow-Project		Receiver Compan	у:						Co	inquishempany:		By: V. K	Date Date	Time