Report
Environmental Investigation
CDC-Mead Rectifier Yard
Mead, Washington

June 26, 2006

Prepared for

CDC-Mead
Mead, Washington

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1.0 INTRODUCTION

This report presents the results of an environmental investigation conducted by Landau Associates of soils beneath the former rectifier yard at the CDC-Mead facility [formerly operated by Kaiser Aluminum & Chemical Corporation (Kaiser)] in Mead, Washington. During its operation, the rectifier yard at the Mead facility contained a line of oil-filled electrical equipment, including 51 transformers, located on the south side of the rectifier building. The equipment was positioned on an elevated fill area constructed behind a 4-ft concrete bulkhead. All of the transformers were removed prior to this investigation.

The purpose of this investigation was to assess whether soils beneath the transformers are impacted with petroleum hydrocarbons and polychlorinated biphenyls (PCBs), and if so, characterize the magnitude and the vertical extent of the impacts. A vicinity map showing the location of the facility is presented in Figure 1, and a facility map showing the location of the rectifier yard within the Mead facility is presented in Figure 2.

1.1 SITE GEOLOGY AND HYDROGEOLOGY

Based on well logs on file with the Washington State Department of Ecology (Ecology), and reports from previous investigations conducted at the site, soils beneath the Mead facility consist of deposits of fine to medium sand with interbedded silt and clay to a depth of approximately 300 ft. Soils at the site are mapped as Marble loamy coarse sand, 0 to 30 percent slopes, by the 1968 Spokane County Soil Survey. This soil is described in the Survey as being excessively drained and rapidly permeable.

Groundwater at the facility has been measured at approximately 150 ft below ground surface (BGS); however, some minor localized perched water has been encountered above silt and clay interbeds at depths ranging from 35 to 65 ft BGS. The site is located over a branch of the Spokane-Rathdrum Prairie Aquifer called the Hillyard Trough. The Spokane-Rathdrum Prairie Aquifer is a sole source aquifer that supplies drinking water to the cities of Spokane and Spokane Valley.

2.0 PREVIOUS INVESTIGATIONS

2.1 1992 TRANSFORMER OIL LEAK INVESTIGATION

A previous investigation of subsurface soils at the Mead property was conducted by Dalton, Olmstead and Fuglevand in 1992 after a transformer oil line leak of about 100 gallons that occurred near the railroad tracks between the main rectifier bank and the Line 7/8 regulators near transformer 44 (Figure 3). Approximately 35 gallons of oil was reportedly recovered through soil excavation. A subsequent soil investigation conducted to determine the extent of oil migration from the spill indicated the presence of diesel-range and heavy oil-range petroleum hydrocarbons in the soil directly beneath the spill to a depth of approximately 50 ft. No PCBs or chlorinated hydrocarbons were detected. Groundwater samples collected from locations downgradient of the spill more than 4 months after the spill occurred did not detect concentrations of petroleum hydrocarbons. No remediation was conducted due to the low potential for groundwater quality to be impacted and because of restricted access to the spill area.

2.2 2003 QUALITATIVE SOIL INVESTIGATION

In December 2003, Landau Associates conducted a qualitative environmental investigation of soils adjacent to transformers in the rectifier yard on behalf of Kaiser. The purpose of the investigation was to determine the lateral and vertical extent of soils impacted with petroleum hydrocarbons based on visual observations and field screening. Subsurface soil explorations were conducted by test pit excavations and shallow borings. One additional boring to 52 ft BGS was completed using the Geoprobe™ exploration method. Soil samples were collected from each of the explorations, logged, and screened for the presence of petroleum hydrocarbons using a sheen test and UV fluorescence.

Based on the conditions observed in nine test pit excavations, four locations were selected for further exploration using a portable hollow-stem auger drilling rig. These borings were drilled to depths ranging from 12 to 14 ft BGS at locations where subsurface petroleum impacts were observed during the test pit investigation (Figure 3). The location of the Geoprobe™ exploration was chosen based on test pit and auger explorations and historical accounts of activities at the site. Geoprobe™ core samples were taken in 4-ft sections to a total depth of 52 ft BGS.

Environmental conditions were documented through visual observations and field screening of samples collected from each exploration. These observations indicated that petroleum impacts in subsurface soils beneath the transformers were present in the gravel fill and upper 1 ft of the underlying sand. Some minor response, such as a trace sheen or a slight UV reaction, was observed in some deeper

samples during field screening; however, no visual evidence of petroleum hydrocarbon products was observed during the 2003 investigation. Groundwater was not encountered at depths up to 53 ft BGS.

3.0 LAND USE AND SOIL CLEANUP STANDARDS

Under the Washington State Model Toxics Control Act (MTCA) cleanup regulation, cleanup levels for contaminants present at a site are based on two types of land use: unrestricted and industrial. Unrestricted land use, which may include uses such as residential, schools, and childcare, represents the maximum exposure scenario, and therefore requires the most protective cleanup levels. Unless a site qualifies as an industrial property, soil cleanup levels must be based on residential exposure for unrestricted land use.

For industrial land use, soil cleanup levels are based on the exposure expected to occur under industrial land use conditions. If industrial soil cleanup levels are established, restrictions on future use of the land are required. To qualify as an industrial property, a site must meet the definition of an industrial property under WAC 173-340-200 and meet the criteria described in WAC 173-340-745(1)(a). To meet these requirements a property must be or have been characterized by, or be committed to, traditional industrial uses such as manufacturing, transportation, or distribution or storage of bulk materials. The site must also be zoned for industrial uses. When evaluating land uses to determine if a site meets the intent of the industrial classification, additional considerations include whether a site has restricted or limited access to the public, no residential use, and whether the surface is covered by pavement, buildings, or other structures. Surrounding property use may also be considered when evaluating industrial land use.

If a site uses industrial cleanup levels, appropriate institutional controls must be implemented. Institutional controls are measures taken to limit or prohibit activities that may result in exposure to hazardous substances at a site, and may include a covenant on the property that limits the site to industrial use where industrial soil cleanup levels are proposed. Additionally, hazardous substances remaining at the property must not pose a threat to human health or the environment at the site, or at adjacent non-industrial properties such as residential areas, schools, or child care facilities.

The CDC-Mead facility was formerly an aluminum smelter that operated from the 1940's to 2000. The site and property in the vicinity of the site are zoned heavy industrial, according to information obtained from the Spokane County GIS official website on June 1, 2006, and access to the property by the public is restricted. Based on the long history of heavy industrial manufacturing at the property, and the anticipated future industrial use of the facility, the rectifier yard site qualifies as industrial property under MTCA. The MTCA Method A industrial soil cleanup levels for PCBs and TPH are appropriate for this site because the site is and will be industrial property, and relatively few hazardous substances are present. For petroleum mixtures, using the MTCA Method C option, site-specific cleanup levels protective of human health and the environment can also be calculated using site-specific and chemical specific data.

4.0 FIELD INVESTIGATION

The field investigation was conducted on May 8 and 9, 2006, to characterize the environmental condition of shallow soils adjacent to the former transformers in the rectifier yard. Drilling locations were selected based on the presence of visible surface impacts, or on locations where suspected contamination was identified in the previous investigation. Details of the field activities and investigation results are presented below.

4.1 SOIL INVESTIGATION

The scope of work for this investigation consisted of investigating shallow soils by drilling ten shallow borings to depths ranging from 16.5 ft to 26.5 ft BGS. Boring locations were targeted where potential impacts were observed through screening during previous investigations and where visual impacts were observed at the ground surface at the time of this investigation. A shallow surface soil sample was collected from 0 to 1 ft BGS at each boring location using clean stainless steel sampling utensils. Driven soil samples were then collected from each boring using decontaminated split-spoon samplers. Split-spoon samples were collected continuously from 2 to 10 ft BGS, and at 5-ft intervals for the remaining depth of each boring. The locations of the borings are shown on Figure 3.

Samples collected at each boring were placed in laboratory-supplied sample containers and stored in a cooler with ice before delivery to Test America Analytical Laboratory in Spokane, Washington. Soil samples were field classified in accordance with the Unified Soil Classification System, and their lithologic descriptions recorded on a field log. Each sample was field screened for the presence of petroleum hydrocarbons using a simple sheen test. The sheen test was conducted by adding water to a 250-milliliter (ml) jar filled approximately one-third full with soil, and observing whether a petroleum sheen developed on the water surface. The field screening results are included in the field logs in Appendix A.

All surface soil samples and at least two split-spoon samples from each boring were analyzed for total petroleum hydrocarbons (TPH) by Method NWTPH-diesel extended and PCBs by EPA Method 8082. Samples not selected for analysis were placed on hold pending the analytical results. Based on the laboratory results, additional samples were selected for analysis to further define the vertical extent of impacts, where necessary.

4.2 INVESTIGATION RESULTS

4.2.1 GEOLOGIC CONDITIONS

The results of the field investigation indicate that, based on samples collected from the borings, soil beneath the transformer area consists of approximately 0 to 3.5 ft of well-graded silty gravel fill overlying brown, poorly-graded sand to depths of between 14 and 21 ft BGS. At borings A-4A(2) and B-46, well-graded sand was encountered at depths of 14 ft and 19 ft BGS, respectively. Groundwater was not encountered in any of the borings. Details of soil conditions encountered in each boring are presented in the soil logs in Appendix A.

4.2.2 LABORATORY ANALYTICAL RESULTS

The laboratory results for TPH and PCB analysis are presented in Table 1, and the laboratory analytical report is included in Appendix B. Concentrations of PCB Aroclor 1260 above the reporting limit were reported in samples collected from each of the ten borings. Sample concentrations of PCB Aroclor 1260 ranged from No Detection to 459 micrograms per kilogram (µg/kg). PCB Aroclor 1248 was reported in one surface sample from boring A-4A(2) at 359 µg/kg [sample A-4A(2)-0]. All PCB sample concentrations were below the MTCA Method A industrial cleanup level 10,000 µg/kg for total PCBs in soil.

Concentrations of diesel-range or heavy oil-range petroleum hydrocarbons were reported in soil samples collected from each boring, at concentrations ranging from below the reporting limit to a maximum of 132,000 milligrams per kilogram (mg/kg) for diesel and 65,500 mg/kg for heavy oil-range hydrocarbons. Concentrations of TPH above the MTCA Method A soil cleanup level of 2,000 mg/kg were generally detected in the upper 2.5 to 5 ft of soil, although concentrations above the cleanup level were detected at 10 ft in boring B-48, 7.5 ft in boring B-18, and at 15 ft in boring B-46. The concentration of TPH reported in samples deeper than 10 ft in boring B-18, and 20 ft in boring B-46, met the TPH soil cleanup level and therefore bound the depth of contamination at these locations.

5.0 CLEANUP OPTIONS

Site cleanup conducted under MTCA must meet minimum threshold requirements, which include protection of human health and the environment, complying with cleanup standards, and complying with applicable state and federal regulations. The MTCA regulation also requires the use of permanent solutions to the maximum extent practicable, and that the selected cleanup action provide for a reasonable restoration time frame. Cleanup actions must also include institutional controls when industrial cleanup levels are used for the site, or when hazardous substances above site the site cleanup level remain onsite. Institutional controls for the site may include measures such as fences to control site access, limitations on future site use to prevent exposure to hazardous substances, stormwater control, and maintenance of engineered controls such as a cap or cover over contaminated material.

The results of the soil investigation of the former rectifier yard indicate that soil impacted with diesel-range and heavy oil-range hydrocarbons above cleanup levels is generally present within the upper 2.5 to 5 ft of the surface. However, impacted soil above cleanup levels was also encountered between 10 and 15 ft BGS at three locations. PCBs were not detected above the cleanup level of 10, 000 μg/kg.

A number of options are available to address the presence of TPH-impacted soil at the site. These include options such as bioremediation; soil excavation, containment and disposal; and implementation of institutional controls. A final option is typically selected based on site-specific conditions, and may include some combination of one or more of these. It should be noted that any option selected would need to be compatible with future redevelopment of the property. The volume of soil that is addressed under any cleanup option will depend on the final cleanup levels developed for the site.

6.0 CONCLUSIONS

Based on laboratory analytical results, total PCB concentrations in soil samples collected during this investigation are less than the MTCA Method A soil cleanup level of 10,000 µg/kg. Petroleum-impacted soil above cleanup levels appears to be limited primarily to the sand and gravel units in the upper 2.5 to 5 ft BGS; however, concentrations of diesel- and oil-range petroleum hydrocarbons above cleanup levels were reported in samples between 7.5 ft and 15 ft BGS in borings B-18, B-46, and B-48.

The depth to groundwater beneath the site is expected to be approximately 150 ft BGS, and was not encountered during this investigation. Based on the results of laboratory analysis of soil samples, TPH above cleanup levels is not present in soil at depths greater than 20 ft BGS. Therefore, due to the limited depth of petroleum impacts observed in soils, combined with the anticipated depth to groundwater and the age of the site, it is unlikely that petroleum encountered in soils at the former rectifier yard has impacted groundwater beneath the site, or is likely to impact groundwater in the future.

7.0 USE OF THIS REPORT

This report has been prepared for the exclusive use of CDC-Mead for specific application to the rectifier yard area of the former Kaiser Mead Works facility. Reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau Associates, shall be at the user's sole risk. Landau Associates warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

This document has been prepared under the supervision and direction of the following key staff.

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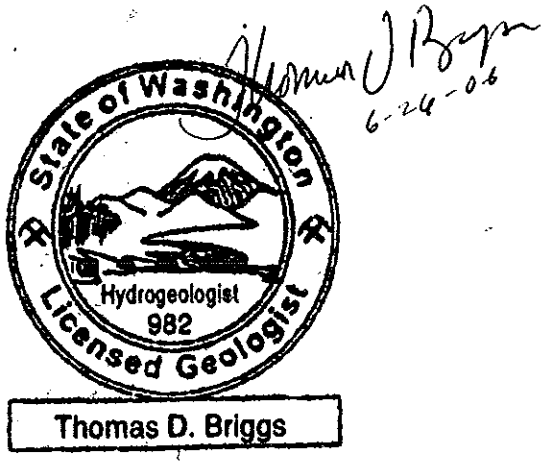

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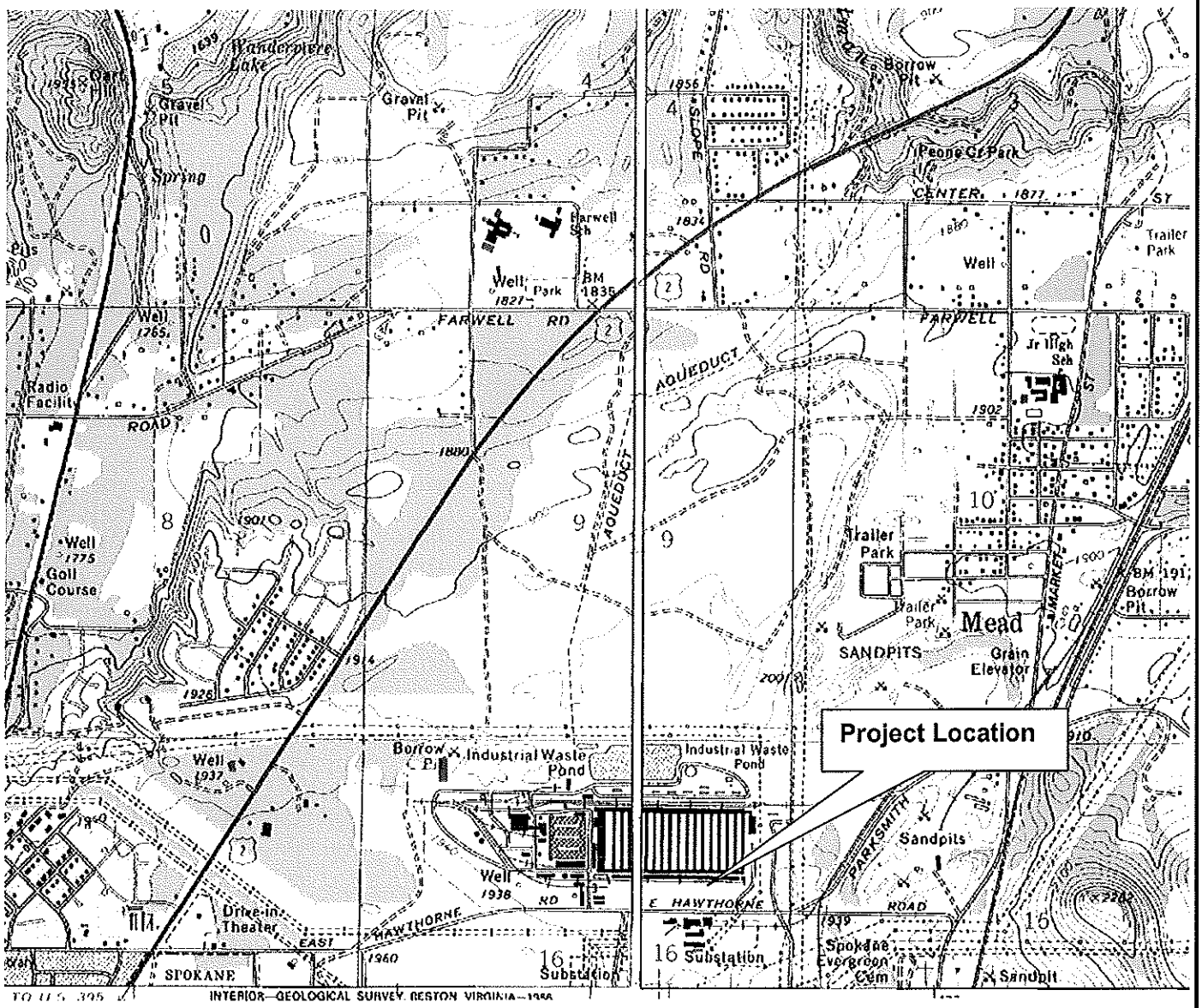

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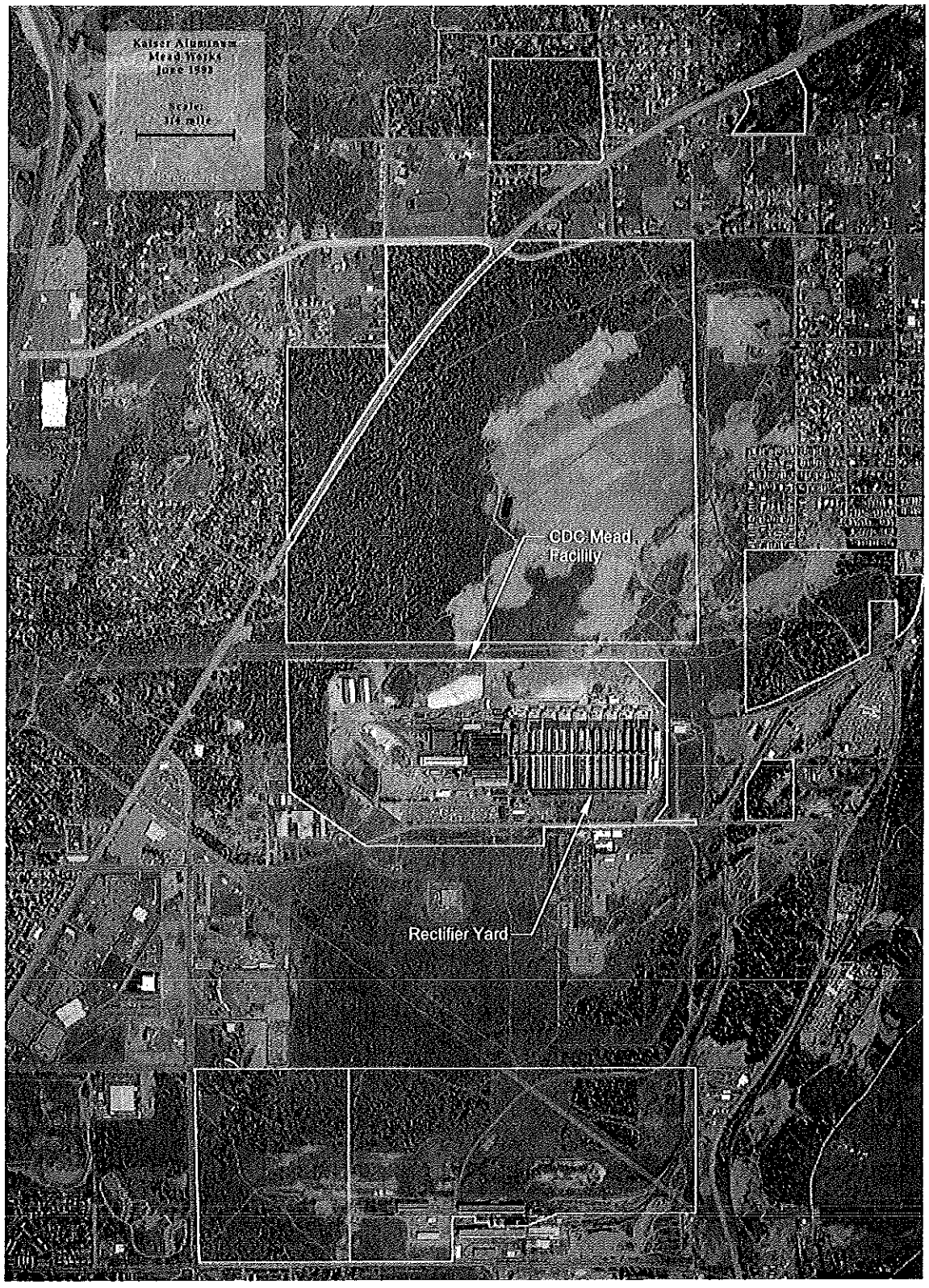
CDC Mead Mead, Washington	**Vicinity Map**	Figure 1



0 2000 4000

Scale in Feet

CDC Mead Facility/Qualitative Soil Investigation | V:\977\001\011\D\Report\Fig2.dwg (A) "Figure 2" 6/16/2006

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CDC Mead Facility Rectifier Yard Mead, Washington	**Facility Location**	Figure 2

N

Rectifier Building

Ramp

Sidewalk

TP-4A A-4A TP-10A A-10A TP-15B TP-23A A-26B TP-26B TP-34B TP-42A A-44 TP-44 TP-49A

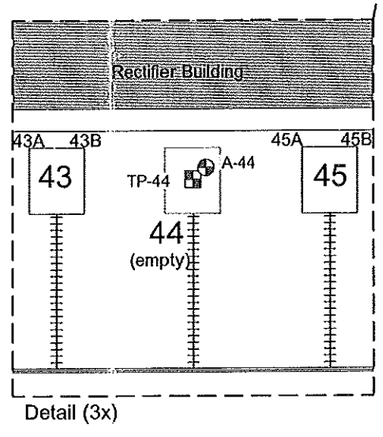
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 X 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

A-4A(2) GP-7 A-10A(2) B-18 A-26B(2) 29B 31A 35A 43B B46 B48

Concrete Retaining Wall

Railroad Tracks

Regulator Island



Detail (3x)

Legend

TP-4A	Test Pit Locations 2003
A-4A	Auger Locations 2003
GP-7	Geoprobe Locations 2003
A-4A(2)	Auger Locations 2006
4	Former Electrical Transformer

0 80 160

Approximate Scale in Feet

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CDC - Mead
Former Rectifier Yard
Mead, Washington

Exploration Locations

Figure 3

Qualitative Soil Investigation I:\cad\plt-file\018\017012\auger.dwg (A) 6/2006

TABLE 1
LABORATORY ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS AND PCBs
CDC-Mead Rectifier Yard
Mead, WA

Boring	Sample Identification	Depth (ft)	Date Sampled	Total Petroleum Hydrocarbons(a)		PCBs (b)	
				TPH-Diesel (mg/kg)	TPH-Oil (mg/kg)	PCB-1260 (µg/kg)	PCB-1248 (µg/kg)
A-4A(2)	A-4A(2)-0	0	5/8/2006	25,200	34,500	459	359
	A-4A(2)-5	5	5/8/2006	6,940	2,690 U	53.8 U	53.8 U
	A-4A(2)-10	10	5/8/2006	114	38.8	NA	NA
A-10A(2)	A-10A(2)-0	0	5/8/2006	63,200	42,000	55.6	53.4 U
	A-10A(2)-5	5	5/8/2006	473	287	76.2	54.2 U
B18	B18-0	0	5/9/2006	25,400	11,300	61.0	52.9 U
	B18-5	5	5/9/2006	13,100	2,480 U	55.1 U	55.1 U
	B18-7.5	7.5	5/9/2006	4,640	899	NA	NA
	B18-10	10	5/9/2006	227	59.6	53.0 U	53.0 U
26B(2)	26B(2)-0	0	5/8/2006	6,260	2,770	187	52.0 U
	26B(2)-2.5	2.5	5/8/2006	28.5	26.6 U	NA	NA
	26B(2)-5	5	5/8/2006	9.62 U	24.1 U	54.6 U	54.6 U
29B	29B-0	0	5/8/2006	25,300	9,670	146	55.2 U
	29B-2.5	2.5	5/8/2006	40.4	30.0	52.9 U	52.9 U
31A	31A-0	0	5/9/2006	12,500	5,240	195	53.7 U
	31A-2.5	2.5	5/8/2006	1,840	851	82.9	54.1 U
35A	35A-0	0	5/9/2006	25,400	15,900	68.6	52.2 U
	35A-2.5	2.5	5/8/2006	166	91.7	54.5 U	54.5 U
43B	43B-0	0	5/9/2006	1,680	1,310	230	53.2 U
	43B-7.5	7.5	5/9/2006	98.6	74.7	52.9 U	52.9 U
B46	B46-0	0	5/9/2006	81,900	65,500	157	113 U
	B46-7.5	7.5	5/9/2006	12,400	6,140 U	167	55.7 U
	B46-15	15	5/9/2006	5,870	5,190 U	136	52.7 U
	B46-20	20	5/9/2006	29.8	25.9 U	NA	NA
B48	B48-0	0	5/9/2006	132,000	56,800	123 U	123 U
	B48-5	5	5/9/2006	10,300	4,760 U	104	56.9 U
	B48-10	10	5/9/2006	2,140	851	52.6 U	52.6 U
MTCA Method A Cleanup Level (c)				**2,000**	**2,000**	**10,000**	

Notes:
NA = Not Analyzed
U = Indicates that the analyte was not detected in this sample at or above the reporting limit shown.
J = estimated value.
(a) Total petroleum hydrocarbons (TPH) analyzed by Washington State Department of Ecology Method NWTPH-Dx.
(b) PCBs analyzed by EPA method 8081. Only aroclors detected above reporting limits are listed.
(c) MTCA Method A soil cleanup levels for industrial properties, chapter 173-340 WAC.

APPENDIX A

Boring Logs

Soil Classification System

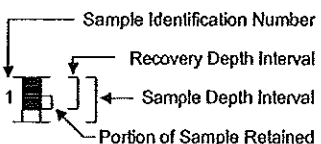
MAJOR DIVISIONS		GRAPHIC SYMBOL	USCS LETTER SYMBOL[1]	TYPICAL DESCRIPTIONS[2][3]
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve) — CLEAN GRAVEL (Little or no fines)		GW	Well-graded gravel; gravel/sand mixture(s); little or no fines
			GP	Poorly graded gravel; gravel/sand mixture(s); little or no fines
	GRAVEL WITH FINES (Appreciable amount of fines)		GM	Silty gravel; gravel/sand/silt mixture(s)
			GC	Clayey gravel; gravel/sand/clay mixture(s)
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve) — CLEAN SAND (Little or no fines)		SW	Well-graded sand; gravelly sand; little or no fines
			SP	Poorly graded sand; gravelly sand; little or no fines
	SAND WITH FINES (Appreciable amount of fines)		SM	Silty sand; sand/silt mixture(s)
			SC	Clayey sand; sand/clay mixture(s)
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)		ML	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity
			CL	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay
			OL	Organic silt; organic, silty clay of low plasticity
	SILT AND CLAY (Liquid limit greater than 50)		MH	Inorganic silt; micaceous or diatomaceous fine sand
			CH	Inorganic clay of high plasticity; fat clay
			OH	Organic clay of medium to high plasticity; organic silt
	HIGHLY ORGANIC SOIL		PT	Peat; humus; swamp soil with high organic content

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		AC or PC	Asphalt concrete pavement or Portland cement pavement
ROCK		RK	Rock (See Rock Classification)
WOOD		WD	Wood, lumber, wood chips
DEBRIS		DB	Construction debris, garbage

Notes:
1. USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
2. Soil descriptions are based on the general approach presented in the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*, outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the *Standard Test Method for Classification of Soils for Engineering Purposes*, as outlined in ASTM D 2487.
3. Soil description terminology should contain visual estimates of the relative percentages of each soil type and is defined as follows:
   Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.
   > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.
   Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt," etc.
   ≤ 5% - "trace gravel," "trace sand," "trace silt," etc., or not noted.

Drilling and Sampling Key

SAMPLE NUMBER & INTERVAL



SAMPLER TYPE

Code	Description
a	3.25-inch O.D., 2.42-inch I.D. Split Spoon
b	2.00-inch O.D., 1.50-inch I.D. Split Spoon
c	Shelby Tube
d	Grab Sample
e	Other - See text if applicable
1	300-lb Hammer, 30-inch Drop
2	140-lb Hammer, 30-inch Drop
3	Pushed
4	Other - See text if applicable

Groundwater

▽ ATD — Approximate water elevation at time of drilling (ATD) or on date noted. Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

Field and Lab Test Data

Code	Description
PP = 1.0	Pocket Penetrometer, tsf
TV = 0.5	Torvane, tsf
PID = 100	Photolonization Detector VOC screening, ppm
W = 10	Moisture Content, %
D = 120	Dry Density, pcf
-200 = 60	Material smaller than No. 200 sieve, %
GS	Grain Size - See separate figure for data
AL	Atterberg Limits - See separate figure for data
GT	Other Geotechnical Testing
CA	Chemical Analysis

6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL CLASS SHEET

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Rectifier Yard Soil Investigation
Spokane, Washington

Soil Classification System and Key

Figure A-1

A-4A(2)

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	A-4A(2)-0	d2		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2	A-4A(2)-2.5	b2	3			SP	Grayish brown, poorly graded fine to medium SAND, homogeneous, slight petroleum odor, (very loose, moist).	
4	A-4A(2)-5	b2	3	sheen CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (very loose, moist).	
6								
8	A-4A(2)-7.5	b2	24	light sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
10	A-4A(2)-10	b2	29	very light sheen CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
12								
14						SW	Grayish brown, well graded SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
16	A-4A(2)-15	b2	23	very light sheen				
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

9770001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring A-4A(2)

Figure
A-2

A-10A(2)

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	A-10A(2)-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2		b2	4			SP	No Recovery	
4	A-10A(2)-5	b2	5	sheen CA			Grayish brown, poorly graded fine to medium SAND, homogeneous, slight petroleum odor, (very loose, moist).	
6								
8	A-10A(2)-7.5	b2	23	very light sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
10	A-10A(2)-10	b2	37				Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
12								
14								
16	A-10A(2)-15	b2	40	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, dense, moist, slight petroleum odor, (dense, moist).	
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring A-10A(2)

Figure
A-3

B-18

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): ____ Drilled By: Boretec	
0	B18-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor (loose, damp).	Groundwater not encountered.
2						SP		
	B18-2.5	b2	3				Grayish brown, poorly graded fine to medium SAND, homogeneous, visible petroleum product (very loose, moist).	
4								
	B18-5	b2	25	CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, visible petroleum product, (medium dense, moist).	
6								
	B18-7.5	b2	36	CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, visible petroleum product, (medium dense, moist).	
8								
	B18-10	b2	37	CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, trace of petroleum product, (medium dense, moist).	
10								
12								
14								
	B18-15	b2		no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, no visible petroleum product, (moist).	
16								
18								
20								

Boring Completed 05/09/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHERIGINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring B-18

Figure
A-4

26B(2)

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	SOIL PROFILE	GROUNDWATER
							Drilling Method: Hollow-stem Auger Ground Elevation (ft): ____ Drilled By: Boretec	
0	26B(2)-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (very loose, damp).	Groundwater not encountered.
2	26B(2)-2.5	b2	3	CA		SP	Grayish brown, poorly graded fine to medium SAND with gravel, homogeneous, slight petroleum odor, (very loose, moist).	
4								
6	26B(2)-5	b2	15	very light sheen CA			Grayish brown, poorly graded fine to medium SAND with gravel, homogeneous, slight petroleum odor, (medium dense, moist).	
8	26B(2)-7.5	b2	21	no apparent sheen			Grayish brown, poorly graded fine to medium SAND with gravel, homogeneous, (medium dense, moist).	
10	26B(2)-10	b2	32				Grayish brown, poorly graded fine to medium SAND with gravel, homogeneous, (medium dense, moist).	
12								
14								
16	26B(2)-15	b2		no apparent sheen			Grayish brown, poorly graded fine to medium SAND with gravel, homogeneous, (moist).	
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring 26B(2)

Figure
A-5

29B

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	29B-0	d2		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2	29B-2.5	b2	2	no apparent sheen CA		SW	Brown, well graded SAND, homogeneous, slight petroleum odor, (very loose, moist).	
4						SP		
6	29B-5	b2	12				Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (loose, moist).	
8	29B-7.5	b2	22	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
10	29B-10	b2	39				Grayish brown, poorly graded medium to coarse SAND, homogeneous, (dense, moist).	
12								
14								
16	29B-15	b2	24	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

LANDAU ASSOCIATES

Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring 29B

Figure
A-6

31A

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	SOIL PROFILE	GROUNDWATER
							Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	31A-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2						SP		
4	31A-2.5	b2	2	CA			Grayish brown, poorly graded fine to medium SAND, homogeneous, petroleum odor, (very loose, moist).	
6	31A-5	b2	19	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
8	31A-7.5	b2	55	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (dense, moist).	
10	31A-10	b2	33				Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
12								
14								
16	31A-15	b2	35	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/15/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring 31A

Figure
A-7

35A

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): ____ Drilled By: Boretec	
0	35A-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2	35A-2.5	b2	3	very light sheen CA		SP-SM	Grayish brown, poorly graded fine silty SAND, homogeneous, slight petroleum odor, (very loose, moist).	
4						SP		
6	35A-5	b2	19	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
8	35A-7.5	b2	28	no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
10	35A-10	b2	30				Grayish brown, poorly graded medium to coarse SAND, homogeneous, (medium dense, moist).	
12								
14								
16	35A-15	b2		no apparent sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, (moist).	
18								
20								

Boring Completed 05/08/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Spokane, Washington

Log of Boring 35A

Figure
A-8

43B

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	43B-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2						SP		
	43B-2.5	b2	3				Grayish brown, poorly graded fine to medium SAND, homogeneous, slight petroleum odor, (very loose, moist).	
4								
	43B-5	b2	5				Grayish brown, poorly graded fine to medium SAND, homogeneous, slight petroleum odor, with wood fragments, (very loose, wet).	
6								
8	43B-7.5	b2	26	CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
10	43B-10	b2	27	light sheen			Grayish brown, poorly graded medium to coarse SAND, homogeneous, slight petroleum odor, (medium dense, moist).	
12								
14								
16	43B-15	b2		very light sheen			Grayish brown, poorly graded medium to coarse SAND with scattered gravel, homogeneous, slight petroleum odor, (moist).	
18								
20								

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHERIGINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring 43B

Figure
A-9
(1 of 2)

43B

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	SAMPLE DATA / SOIL PROFILE / GROUNDWATER
							Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec
20	43B-20	b2	13	very light sheen		SP	Grayish brown, poorly graded medium to coarse SAND with scattered gravel, homogeneous, slight petroleum odor, (medium dense, moist).
							Groundwater not encountered.
22							Boring Completed 05/08/06 Total Depth of Boring = 21.5 ft.
24							
26							
28							
30							
32							
34							
36							
38							
40							

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring 43B

Figure
A-9
(2 of 2)

B46

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): ____ Drilled By: Boretec	
0	B46-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2						SP		
4	B46-2.5	b2	1				Grayish brown, poorly graded fine to medium SAND with silt, homogeneous, visible petroleum product, (very loose, moist).	
6	B46-5	b2	16				Grayish brown, poorly graded fine to medium SAND with silt, homogeneous, moist, visible petroleum product, (medium dense, moist).	
8	B46-7.5	b2	16	CA			Grayish brown, poorly graded medium to coarse SAND with silt, homogeneous, visible petroleum product, (medium dense, moist).	
10	B46-10	b2	22				Grayish brown, poorly graded medium to coarse SAND with silt, homogeneous, visible petroleum product, (medium dense, moist).	
12								
14								
16	B46-15	b2	34	CA			Grayish brown, poorly graded medium to coarse SAND with silt, homogeneous, visible petroleum product, (medium dense, moist).	
18								
20						SW	Grayish brown, well graded SAND with silt, homogeneous, no visible product, slight petroleum odor, (moist).	

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 \\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring B46

Figure
A-10
(1 of 2)

B46

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
20								
	B46-20	b2	41	no apparent sheen CA		SW	Grayish brown, well graded SAND with silt, homogeneous, no visible product, slight petroleum odor, (moist).	Groundwater not encountered.
22							Grayish brown, well graded SAND with silt, homogeneous, slight petroleum odor, (dense, moist).	
24								
	B46-25	b2	33				Grayish brown, well graded SAND with silt, homogeneous, slight petroleum odor, (medium dense, moist).	
26								

Boring Completed 05/09/06
Total Depth of Boring = 26.5 ft.

28
30
32
34
36
38
40

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

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Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring B46

Figure
A-10
(2 of 2)

B48

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): _____ Drilled By: Boretec	
0	B48-0	d		CA		GM	Dark gray to black, well graded silty GRAVEL with sand, subrounded, petroleum staining and odor, (loose, damp).	Groundwater not encountered.
2						SP		
	B48-2.5	b2	2				Grayish brown, poorly graded fine SAND, homogeneous, visible petroleum product, (very loose, moist).	
4								
	B48-5	b2	17	CA			Grayish brown, poorly graded fine SAND, homogeneous, visible petroleum product, (medium dense, moist).	
6								
8	B48-7.5	b2	34				Grayish brown, poorly graded medium SAND, homogeneous, visible petroleum product, (medium dense, moist).	
	B48-10	b2	19	sheen CA			Grayish brown, poorly graded medium to coarse SAND, homogeneous, visible petroleum product, (medium dense, moist).	
10								
12								
14								
	B48-15	b2	30	very light sheen			Grayish brown, poorly graded medium SAND, homogeneous, no visible product, slight petroleum odor, (medium dense, moist).	
16								
18								
20								

Boring Completed 05/09/06
Total Depth of Boring = 16.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

977001.01 6/16/06 I:\OTHER\GINT\SPOK-SAVE GINT\PROJECTS\CDC-MEAD.GPJ SOIL BORING LOG

LANDAU ASSOCIATES

Rectifier Yard Soil Investigation
Spokane, Washington

Log of Boring B48

Figure
A-11

TestAmerica
ANALYTICAL TESTING CORPORATION

SPOKANE, WA 11922 E. 1ST AVENUE
SPOKANE VALLEY, WA 99206-5302
ph: (509) 924.9200 fax: (509) 924.9290

Landau Associates - Spokane	Project Name:	**CDC-Mead**	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B18-0'	SPE0059-01	Soil	05/09/06 10:30	05/10/06 16:00
B18-5'	SPE0059-03	Soil	05/09/06 09:35	05/10/06 16:00
B18-7.5'	SPE0059-04	Soil	05/09/06 09:40	05/10/06 16:00
B18-10'	SPE0059-05	Soil	05/09/06 09:45	05/10/06 16:00
26B(2)-0'	SPE0059-07	Soil	05/08/06 13:20	05/10/06 16:00
26B(2)-2.5'	SPE0059-08	Soil	05/08/06 08:00	05/10/06 16:00
26B(2)-5'	SPE0059-09	Soil	05/08/06 08:05	05/10/06 16:00
A4A(2)-0'	SPE0059-13	Soil	05/08/06 07:45	05/10/06 16:00
A4A(2)-5'	SPE0059-15	Soil	05/08/06 08:00	05/10/06 16:00
A4A(2)-10'	SPE0059-17	Soil	05/08/06 08:10	05/10/06 16:00
A10A(2)-0'	SPE0059-19	Soil	05/08/06 08:45	05/10/06 16:00
A10A(2)-5'	SPE0059-20	Soil	05/08/06 08:55	05/10/06 16:00
B46-0'	SPE0059-24	Soil	05/09/06 12:15	05/10/06 16:00
B46-7.5'	SPE0059-27	Soil	05/09/06 07:40	05/10/06 16:00
B46-15'	SPE0059-29	Soil	05/09/06 07:50	05/10/06 16:00
B46-20'	SPE0059-30	Soil	05/09/06 07:55	05/10/06 16:00
B48-0'	SPE0059-32	Soil	05/09/06 12:30	05/10/06 16:00
B48-5'	SPE0059-34	Soil	05/09/06 08:35	05/10/06 16:00
B48-10'	SPE0059-36	Soil	05/09/06 08:45	05/10/06 16:00
29B-0'	SPE0059-38	Soil	05/08/06 13:20	05/10/06 16:00
29B-2.5'	SPE0059-39	Soil	05/08/06 09:15	05/10/06 16:00
31A-0'	SPE0059-44	Soil	05/09/06 10:45	05/10/06 16:00
31A-2.5'	SPE0059-45	Soil	05/08/06 12:00	05/10/06 16:00
35A-0'	SPE0059-50	Soil	05/09/06 11:15	05/10/06 16:00
35A-2.5'	SPE0059-51	Soil	05/08/06 10:00	05/10/06 16:00
43B-0'	SPE0059-56	Soil	05/09/06 11:45	05/10/06 16:00
43B-7.5'	SPE0059-59	Soil	05/09/06 11:10	05/10/06 16:00

Dennis D Wells, Laboratory Director

TestAmerica
ANALYTICAL TESTING CORPORATION

SPOKANE, WA 11922 E. 1ST AVENUE
SPOKANE VALLEY, WA 99206-5302
ph: (509) 924.9200 fax: (509) 924.9290

Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-01 (B18-0')		**Soil**			**Sampled: 05/09/06 10:30**					
Diesel Range Hydrocarbons	NWTPH-Dx	**25400**	----	1460	mg/kg dry	100x	6050097	05/11/06 09:14	05/17/06 23:03	
Heavy Oil Range Hydrocarbons	"	**11300**	----	3650	"	"	"	"	"	
Surrogate(s): 2-FBP		*139%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*2010%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-03 (B18-5')		**Soil**			**Sampled: 05/09/06 09:35**					
Diesel Range Hydrocarbons	NWTPH-Dx	**13100**	----	991	mg/kg dry	100x	6050097	05/11/06 09:14	05/17/06 23:41	
Heavy Oil Range Hydrocarbons	"	ND	----	2480	"	"	"	"	"	
Surrogate(s): 2-FBP		*306%*			*50 - 150 %*	"			"	*SR-5*
p-Terphenyl-d14		*1120%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-04 (B18-7.5')		**Soil**			**Sampled: 05/09/06 09:40**					
Diesel Range Hydrocarbons	NWTPH-Dx	**4640**	----	106	mg/kg dry	10x	6050178	05/22/06 13:53	05/25/06 14:57	
Heavy Oil Range Hydrocarbons	"	**899**	----	266	"	"	"	"	"	
Surrogate(s): 2-FBP		*158%*			*50 - 150 %*	"			"	*SR-5*
p-Terphenyl-d14		*487%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-05 (B18-10')		**Soil**			**Sampled: 05/09/06 09:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	**227**	----	10.6	mg/kg dry	1x	6050097	05/11/06 09:14	05/18/06 00:21	
Heavy Oil Range Hydrocarbons	"	**59.6**	----	26.5	"	"	"	"	"	
Surrogate(s): 2-FBP		*95.1%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*133%*			*50 - 150 %*	"			"	
SPE0059-07 (26B(2)-0')		**Soil**			**Sampled: 05/08/06 13:20**					
Diesel Range Hydrocarbons	NWTPH-Dx	**6260**	----	905	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 01:00	
Heavy Oil Range Hydrocarbons	"	**2770**	----	2260	"	"	"	"	"	
Surrogate(s): 2-FBP		*132%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*740%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-08 (26B(2)-2.5')		**Soil**			**Sampled: 05/08/06 08:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	**28.5**	----	10.6	mg/kg dry	1x	6050178	05/22/06 13:53	05/24/06 03:04	
Heavy Oil Range Hydrocarbons	"	ND	----	26.6	"	"	"	"	"	
Surrogate(s): 2-FBP		*78.1%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*77.0%*			*50 - 150 %*	"			"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dennis D Wells, Laboratory Director

TestAmerica
ANALYTICAL TESTING CORPORATION

SPOKANE, WA 11922 E. 1ST AVENUE
SPOKANE VALLEY, WA 99206-5302
ph: (509) 924.9200 fax: (509) 924.9290

Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-09 (26B(2)-5')		**Soil**			**Sampled: 05/08/06 08:05**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	9.62	mg/kg dry	1x	6050097	05/11/06 09:14	05/18/06 01:40	
Heavy Oil Range Hydrocarbons	"	ND	----	24.1	"	"	"	"	"	
Surrogate(s): 2-FBP		*83.6%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*80.5%*			*50 - 150 %*	"			"	
SPE0059-13 (A4A(2)-0')		**Soil**			**Sampled: 05/08/06 07:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	**25200**	----	1150	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 02:19	
Heavy Oil Range Hydrocarbons	"	**34500**	----	2880	"	"	"	"	"	
Surrogate(s): 2-FBP		*195%*			*50 - 150 %*	"			"	***SR-5***
p-Terphenyl-d14		*11100%*			*50 - 150 %*	"			"	***SR-5***
SPE0059-15 (A4A(2)-5')		**Soil**			**Sampled: 05/08/06 08:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	**6940**	----	1080	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 04:55	
Heavy Oil Range Hydrocarbons	"	ND	----	2690	"	"	"	"	"	
Surrogate(s): 2-FBP		*188%*			*50 - 150 %*	"			"	***SR-5***
p-Terphenyl-d14		*666%*			*50 - 150 %*	"			"	***SR-5***
SPE0059-17 (A4A(2)-10')		**Soil**			**Sampled: 05/08/06 08:10**					
Diesel Range Hydrocarbons	NWTPH-Dx	**114**	----	12.1	mg/kg dry	1x	6050178	05/22/06 13:53	05/24/06 03:41	
Heavy Oil Range Hydrocarbons	"	**38.8**	----	30.3	"	"	"	"	"	
Surrogate(s): 2-FBP		*87.5%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*98.4%*			*50 - 150 %*	"			"	
SPE0059-19 (A10A(2)-0')		**Soil**			**Sampled: 05/08/06 08:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	**63200**	----	4320	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 05:33	
Heavy Oil Range Hydrocarbons	"	**42000**	----	10800	"	"	"	"	"	
Surrogate(s): 2-FBP		*53.1%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*2380%*			*50 - 150 %*	"			"	***SR-5***
SPE0059-20 (A10A(2)-5')		**Soil**			**Sampled: 05/08/06 08:55**					
Diesel Range Hydrocarbons	NWTPH-Dx	**473**	----	108	mg/kg dry	10x	6050097	05/11/06 09:14	05/18/06 06:10	
Heavy Oil Range Hydrocarbons	"	**287**	----	271	"	"	"	"	"	
Surrogate(s): 2-FBP		*98.0%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*239%*			*50 - 150 %*	"			"	***SR-5***

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SPOKANE, WA 11922 E. 1ST AVENUE
SPOKANE VALLEY, WA 99206-5302
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Landau Associates - Spokane	Project Name: CDC-Mead	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-24 (B46-0')		Soil			Sampled: 05/09/06 12:15					
Diesel Range Hydrocarbons	NWTPH-Dx	**81900**	----	11300	mg/kg dry	1000x	6050097	05/11/06 09:14	05/22/06 11:43	
Heavy Oil Range Hydrocarbons	"	65500	----	28200	"	"	"	"	"	
Surrogate(s): 2-FBP		*448%*			*50 - 150 %*	"			"	*SR-5*
p-Terphenyl-d14		*16000%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-27 (B46-7.5')		Soil			Sampled: 05/09/06 07:40					
Diesel Range Hydrocarbons	NWTPH-Dx	**12400**	----	2460	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 07:23	
Heavy Oil Range Hydrocarbons	"	ND	----	6140	"	"	"	"	"	
Surrogate(s): 2-FBP		*164%*			*50 - 150 %*	"			"	*SR-5*
p-Terphenyl-d14		*866%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-29 (B46-15')		Soil			Sampled: 05/09/06 07:50					
Diesel Range Hydrocarbons	NWTPH-Dx	**5870**	----	2080	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 08:00	
Heavy Oil Range Hydrocarbons	"	ND	----	5190	"	"	"	"	"	
Surrogate(s): 2-FBP		*135%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*582%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-30 (B46-20')		Soil			Sampled: 05/09/06 07:55					
Diesel Range Hydrocarbons	NWTPH-Dx	**29.8**	----	10.3	mg/kg dry	1x	6050178	05/22/06 13:53	05/24/06 04:19	
Heavy Oil Range Hydrocarbons	"	ND	----	25.9	"	"	"	"	"	
Surrogate(s): 2-FBP		*79.8%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*78.7%*			*50 - 150 %*	"			"	
SPE0059-32 (B48-0')		Soil			Sampled: 05/09/06 12:30					
Diesel Range Hydrocarbons	NWTPH-Dx	**132000**	----	11500	mg/kg dry	1000x	6050097	05/11/06 09:14	05/22/06 12:20	
Heavy Oil Range Hydrocarbons	"	56800	----	28900	"	"	"	"	"	
Surrogate(s): 2-FBP		*570%*			*50 - 150 %*	"			"	*SR-5*
p-Terphenyl-d14		*12600%*			*50 - 150 %*	"			"	*SR-5*
SPE0059-34 (B48-5')		Soil			Sampled: 05/09/06 08:35					
Diesel Range Hydrocarbons	NWTPH-Dx	**10300**	----	1900	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 09:13	
Heavy Oil Range Hydrocarbons	"	ND	----	4760	"	"	"	"	"	
Surrogate(s): 2-FBP		*146%*			*50 - 150 %*	"			"	
p-Terphenyl-d14		*1280%*			*50 - 150 %*	"			"	*SR-5*

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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL^A	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-36 (B48-10')		**Soil**				**Sampled: 05/09/06 08:45**				
Diesel Range Hydrocarbons	NWTPH-Dx	**2140**	----	1050	mg/kg dry	100x	6050097	05/11/06 09:14	05/18/06 09:49	
Heavy Oil Range Hydrocarbons	"	**815**	----	526	"	"	"	"	"	
Surrogate(s): 2-FBP			*122%*			*50 - 150 %*	"		"	
p-Terphenyl-d14			*402%*			*50 - 150 %*	"		"	*SR-5*
SPE0059-38 (29B-0')		**Soil**				**Sampled: 05/08/06 13:20**				
Diesel Range Hydrocarbons	NWTPH-Dx	**25300**	----	1100	mg/kg dry	100x	6050108	05/12/06 08:52	05/18/06 10:25	
Heavy Oil Range Hydrocarbons	"	**9670**	----	2760	"	"	"	"	"	
Surrogate(s): 2-FBP			*322%*			*50 - 150 %*	"		"	*SR-5*
p-Terphenyl-d14			*2490%*			*50 - 150 %*	"		"	*SR-5*
SPE0059-39 (29B-2.5')		**Soil**				**Sampled: 05/08/06 09:15**				
Diesel Range Hydrocarbons	NWTPH-Dx	**40.4**	----	10.6	mg/kg dry	1x	6050108	05/12/06 08:52	05/12/06 20:39	
Heavy Oil Range Hydrocarbons	"	**30.0**	----	26.5	"	"	"	"	"	
Surrogate(s): 2-FBP			*93.9%*			*50 - 150 %*	"		"	
p-Terphenyl-d14			*92.1%*			*50 - 150 %*	"		"	
SPE0059-44 (31A-0')		**Soil**				**Sampled: 05/09/06 10:45**				
Diesel Range Hydrocarbons	NWTPH-Dx	**12500**	----	1070	mg/kg dry	100x	6050108	05/12/06 08:52	05/19/06 17:54	
Heavy Oil Range Hydrocarbons	"	**5240**	----	2690	"	"	"	"	"	
Surrogate(s): 2-FBP			*114%*			*50 - 150 %*	"		"	
p-Terphenyl-d14			*1620%*			*50 - 150 %*	"		"	*SR-5*
SPE0059-45 (31A-2.5')		**Soil**				**Sampled: 05/08/06 12:00**				
Diesel Range Hydrocarbons	NWTPH-Dx	**1840**	----	1080	mg/kg dry	100x	6050108	05/12/06 08:52	05/19/06 18:30	
Heavy Oil Range Hydrocarbons	"	**851**	----	541	"	"	"	"	"	
Surrogate(s): 2-FBP			*120%*			*50 - 150 %*	"		"	
p-Terphenyl-d14			*480%*			*50 - 150 %*	"		"	*SR-5*
SPE0059-50 (35A-0')		**Soil**				**Sampled: 05/09/06 11:15**				
Diesel Range Hydrocarbons	NWTPH-Dx	**25400**	----	1040	mg/kg dry	100x	6050108	05/12/06 08:52	05/19/06 19:06	
Heavy Oil Range Hydrocarbons	"	**15900**	----	2610	"	"	"	"	"	
Surrogate(s): 2-FBP			*161%*			*50 - 150 %*	"		"	*SR-5*
p-Terphenyl-d14			*3700%*			*50 - 150 %*	"		"	*SR-5*

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Landau Associates - Spokane	Project Name:	CDC-Mead	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-51 (35A-2.5')		**Soil**			**Sampled: 05/08/06 10:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	**166**	----	9.89	mg/kg dry	1x	6050108	05/12/06 08:52	05/13/06 00:52	
Heavy Oil Range Hydrocarbons	"	**91.7**	----	24.7	"	"	"	"	"	
Surrogate(s): 2-FBP			*81.2%*		*50 - 150 %*	"			"	
p-Terphenyl-d14			*75.9%*		*50 - 150 %*	"			"	
SPE0059-56 (43B-0')		**Soil**			**Sampled: 05/09/06 11:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	**1680**	----	106	mg/kg dry	10x	6050108	05/12/06 08:52	05/22/06 12:57	
Heavy Oil Range Hydrocarbons	"	**1310**	----	266	"	"	"	"	"	
Surrogate(s): 2-FBP			*112%*		*50 - 150 %*	"			"	
p-Terphenyl-d14			*663%*		*50 - 150 %*	"			"	*SR-5*
SPE0059-59 (43B-7.5')		**Soil**			**Sampled: 05/09/06 11:10**					
Diesel Range Hydrocarbons	NWTPH-Dx	**98.6**	----	10.6	mg/kg dry	1x	6050108	05/12/06 08:52	05/13/06 02:05	
Heavy Oil Range Hydrocarbons	"	**74.7**	----	26.4	"	"	"	"	"	
Surrogate(s): 2-FBP			*83.4%*		*50 - 150 %*	"			"	
p-Terphenyl-d14			*106%*		*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name:	**CDC-Mead**
10 N. Post Suite 218	Project Number:	[none]
Spokane, WA 99201	Project Manager:	Tom Briggs

Report Created: 06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-01 (B18-0')		**Soil**			**Sampled: 05/09/06 10:30**					**A-01**
PCB-1016	EPA 8082	ND	----	52.9	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 00:52	
PCB-1221	"	ND	----	52.9	"	"	"	"	"	
PCB-1232	"	ND	----	52.9	"	"	"	"	"	
PCB-1242	"	ND	----	52.9	"	"	"	"	"	
PCB-1248	"	ND	----	52.9	"	"	"	"	"	
PCB-1254	"	ND	----	52.9	"	"	"	"	"	
PCB-1260	"	61.0	----	52.9	"	"	"	"	"	
Surrogate(s): TCX		*124%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*33.3%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-03 (B18-5')		**Soil**			**Sampled: 05/09/06 09:35**					**A-01**
PCB-1016	EPA 8082	ND	----	55.1	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 03:09	
PCB-1221	"	ND	----	55.1	"	"	"	"	"	
PCB-1232	"	ND	----	55.1	"	"	"	"	"	
PCB-1242	"	ND	----	55.1	"	"	"	"	"	
PCB-1248	"	ND	----	55.1	"	"	"	"	"	
PCB-1254	"	ND	----	55.1	"	"	"	"	"	
PCB-1260	"	ND	----	55.1	"	"	"	"	"	
Surrogate(s): TCX		*82.7%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*16.1%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-05 (B18-10')		**Soil**			**Sampled: 05/09/06 09:45**					
PCB-1016	EPA 8082	ND	----	53.0	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 03:37	
PCB-1221	"	ND	----	53.0	"	"	"	"	"	
PCB-1232	"	ND	----	53.0	"	"	"	"	"	
PCB-1242	"	ND	----	53.0	"	"	"	"	"	
PCB-1248	"	ND	----	53.0	"	"	"	"	"	
PCB-1254	"	ND	----	53.0	"	"	"	"	"	
PCB-1260	"	ND	----	53.0	"	"	"	"	"	
Surrogate(s): TCX		*85.3%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*111%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-07 (26B(2)-0')		**Soil**			**Sampled: 05/08/06 13:20**					**A-01**
PCB-1016	EPA 8082	ND	----	52.0	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 04:04	
PCB-1221	"	ND	----	52.0	"	"	"	"	"	
PCB-1232	"	ND	----	52.0	"	"	"	"	"	
PCB-1242	"	ND	----	52.0	"	"	"	"	"	
PCB-1248	"	ND	----	52.0	"	"	"	"	"	
PCB-1254	"	ND	----	52.0	"	"	"	"	"	
PCB-1260	"	187	----	52.0	"	"	"	"	"	
Surrogate(s): TCX		*99.0%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*53.5%*			*50 - 150 %*	"			"	
SPE0059-09 (26B(2)-5')		**Soil**			**Sampled: 05/08/06 08:05**					
PCB-1016	EPA 8082	ND	----	54.6	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 04:31	
PCB-1221	"	ND	----	54.6	"	"	"	"	"	
PCB-1232	"	ND	----	54.6	"	"	"	"	"	
PCB-1242	"	ND	----	54.6	"	"	"	"	"	
PCB-1248	"	ND	----	54.6	"	"	"	"	"	
PCB-1254	"	ND	----	54.6	"	"	"	"	"	
PCB-1260	"	ND	----	54.6	"	"	"	"	"	
Surrogate(s): TCX		*88.3%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*110%*			*50 - 150 %*	"			"	
SPE0059-13 (A4A(2)-0')		**Soil**			**Sampled: 05/08/06 07:45**					**A-01**
PCB-1016	EPA 8082	ND	----	57.5	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 04:59	
PCB-1221	"	ND	----	57.5	"	"	"	"	"	
PCB-1232	"	ND	----	57.5	"	"	"	"	"	
PCB-1242	"	ND	----	57.5	"	"	"	"	"	
PCB-1248	"	359	----	57.5	"	"	"	"	"	
PCB-1254	"	ND	----	57.5	"	"	"	"	"	
PCB-1260	"	459	----	57.5	"	"	"	"	"	
Surrogate(s): TCX		*156%*			*50 - 150 %*	"			"	*SR-4*
Decachlorobiphenyl		*45.9%*			*50 - 150 %*	"			"	*SR-4*

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10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-15 (A4A(2)-5')		**Soil**			**Sampled: 05/08/06 08:00**					
PCB-1016	EPA 8082	ND	----	53.8	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 05:26	
PCB-1221	"	ND	----	53.8	"	"	"	"	"	
PCB-1232	"	ND	----	53.8	"	"	"	"	"	
PCB-1242	"	ND	----	53.8	"	"	"	"	"	
PCB-1248	"	ND	----	53.8	"	"	"	"	"	
PCB-1254	"	ND	----	53.8	"	"	"	"	"	
PCB-1260	"	ND	----	53.8	"	"	"	"	"	
Surrogate(s): TCX		*113%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*25.0%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-19 (A10A(2)-0')		**Soil**			**Sampled: 05/08/06 08:45**					**A-01**
PCB-1016	EPA 8082	ND	----	53.4	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 05:54	
PCB-1221	"	ND	----	53.4	"	"	"	"	"	
PCB-1232	"	ND	----	53.4	"	"	"	"	"	
PCB-1242	"	ND	----	53.4	"	"	"	"	"	
PCB-1248	"	ND	----	53.4	"	"	"	"	"	
PCB-1254	"	ND	----	53.4	"	"	"	"	"	
PCB-1260	"	55.6	----	53.4	"	"	"	"	"	
Surrogate(s): TCX		*109%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*18.6%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-20 (A10A(2)-5')		**Soil**			**Sampled: 05/08/06 08:55**					**A-01**
PCB-1016	EPA 8082	ND	----	54.2	ug/kg dry	1x	6050110	05/12/06 14:37	05/16/06 06:21	
PCB-1221	"	ND	----	54.2	"	"	"	"	"	
PCB-1232	"	ND	----	54.2	"	"	"	"	"	
PCB-1242	"	ND	----	54.2	"	"	"	"	"	
PCB-1248	"	ND	----	54.2	"	"	"	"	"	
PCB-1254	"	ND	----	54.2	"	"	"	"	"	
PCB-1260	"	76.2	----	54.2	"	"	"	"	"	
Surrogate(s): TCX		*107%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*165%*			*50 - 150 %*	"			"	*SR-4*

Dennis D Wells, Laboratory Director

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SPOKANE, WA 11922 E. 1ST AVENUE
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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-24 (B46-0')		**Soil**			**Sampled: 05/09/06 12:15**					
PCB-1016	EPA 8082	ND	----	113	ug/kg dry	2x	6050131	05/16/06 09:53	05/19/06 13:44	
PCB-1221	"	ND	----	113	"	"	"	"	"	
PCB-1232	"	ND	----	113	"	"	"	"	"	
PCB-1242	"	ND	----	113	"	"	"	"	"	
PCB-1248	"	ND	----	113	"	"	"	"	"	
PCB-1254	"	ND	----	113	"	"	"	"	"	
PCB-1260	"	157	----	113	"	"	"	"	"	
Surrogate(s): TCX		*119%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*30.4%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-27 (B46-7.5')		**Soil**			**Sampled: 05/09/06 07:40**					
PCB-1016	EPA 8082	ND	----	55.7	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 19:16	
PCB-1221	"	ND	----	55.7	"	"	"	"	"	
PCB-1232	"	ND	----	55.7	"	"	"	"	"	
PCB-1242	"	ND	----	55.7	"	"	"	"	"	
PCB-1248	"	ND	----	55.7	"	"	"	"	"	
PCB-1254	"	ND	----	55.7	"	"	"	"	"	
PCB-1260	"	167	----	55.7	"	"	"	"	"	
Surrogate(s): TCX		*110%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*78.6%*			*50 - 150 %*	"			"	
SPE0059-29 (B46-15')		**Soil**			**Sampled: 05/09/06 07:50**					
PCB-1016	EPA 8082	ND	----	52.7	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 19:44	
PCB-1221	"	ND	----	52.7	"	"	"	"	"	
PCB-1232	"	ND	----	52.7	"	"	"	"	"	
PCB-1242	"	ND	----	52.7	"	"	"	"	"	
PCB-1248	"	ND	----	52.7	"	"	"	"	"	
PCB-1254	"	ND	----	52.7	"	"	"	"	"	
PCB-1260	"	136	----	52.7	"	"	"	"	"	
Surrogate(s): TCX		*117%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*130%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-32 (B48-0')		**Soil**			**Sampled: 05/09/06 12:30**					
PCB-1016	EPA 8082	ND	----	123	ug/kg dry	1x	6050179	05/23/06 10:45	05/26/06 15:17	
PCB-1221	"	ND	----	123	"	"	"	"	"	
PCB-1232	"	ND	----	123	"	"	"	"	"	
PCB-1242	"	ND	----	123	"	"	"	"	"	
PCB-1248	"	ND	----	123	"	"	"	"	"	
PCB-1254	"	ND	----	123	"	"	"	"	"	
PCB-1260	"	ND	----	123	"	"	"	"	"	
Surrogate(s): TCX		*92.7%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*13700%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-34 (B48-5')		**Soil**			**Sampled: 05/09/06 08:35**					
PCB-1016	EPA 8082	ND	----	56.9	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 20:11	
PCB-1221	"	ND	----	56.9	"	"	"	"	"	
PCB-1232	"	ND	----	56.9	"	"	"	"	"	
PCB-1242	"	ND	----	56.9	"	"	"	"	"	
PCB-1248	"	ND	----	56.9	"	"	"	"	"	
PCB-1254	"	ND	----	56.9	"	"	"	"	"	
PCB-1260	"	104	----	56.9	"	"	"	"	"	
Surrogate(s): TCX		*130%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*78.0%*			*50 - 150 %*	"			"	
SPE0059-36 (B48-10')		**Soil**			**Sampled: 05/09/06 08:45**					
PCB-1016	EPA 8082	ND	----	52.6	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 20:39	
PCB-1221	"	ND	----	52.6	"	"	"	"	"	
PCB-1232	"	ND	----	52.6	"	"	"	"	"	
PCB-1242	"	ND	----	52.6	"	"	"	"	"	
PCB-1248	"	ND	----	52.6	"	"	"	"	"	
PCB-1254	"	ND	----	52.6	"	"	"	"	"	
PCB-1260	"	ND	----	52.6	"	"	"	"	"	
Surrogate(s): TCX		*94.4%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*112%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name: CDC-Mead	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-38 (29B-0')		**Soil**			**Sampled: 05/08/06 13:20**					
PCB-1016	EPA 8082	ND	----	55.2	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 21:06	
PCB-1221	"	ND	----	55.2	"	"	"	"	"	
PCB-1232	"	ND	----	55.2	"	"	"	"	"	
PCB-1242	"	ND	----	55.2	"	"	"	"	"	
PCB-1248	"	ND	----	55.2	"	"	"	"	"	
PCB-1254	"	ND	----	55.2	"	"	"	"	"	
PCB-1260	"	146	----	55.2	"	"	"	"	"	
Surrogate(s): TCX		*134%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*35.1%*			*50 - 150 %*	"			"	*SR-1*
SPE0059-39 (29B-2.5')		**Soil**			**Sampled: 05/08/06 09:15**					
PCB-1016	EPA 8082	ND	----	52.9	ug/kg dry	1x	6050131	05/16/06 09:53	05/18/06 21:34	
PCB-1221	"	ND	----	52.9	"	"	"	"	"	
PCB-1232	"	ND	----	52.9	"	"	"	"	"	
PCB-1242	"	ND	----	52.9	"	"	"	"	"	
PCB-1248	"	ND	----	52.9	"	"	"	"	"	
PCB-1254	"	ND	----	52.9	"	"	"	"	"	
PCB-1260	"	ND	----	52.9	"	"	"	"	"	
Surrogate(s): TCX		*114%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*134%*			*50 - 150 %*	"			"	
SPE0059-44 (31A-0')		**Soil**			**Sampled: 05/09/06 10:45**					
PCB-1016	EPA 8082	ND	----	53.7	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 15:06	
PCB-1221	"	ND	----	53.7	"	"	"	"	"	
PCB-1232	"	ND	----	53.7	"	"	"	"	"	
PCB-1242	"	ND	----	53.7	"	"	"	"	"	
PCB-1248	"	ND	----	53.7	"	"	"	"	"	
PCB-1254	"	ND	----	53.7	"	"	"	"	"	
PCB-1260	"	195	----	53.7	"	"	"	"	"	
Surrogate(s): TCX		*189%*			*50 - 150 %*	"			"	*SR-4*
Decachlorobiphenyl		*70.5%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-45 (31A-2.5')		**Soil**			**Sampled: 05/08/06 12:00**					
PCB-1016	EPA 8082	ND	----	54.1	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 16:47	
PCB-1221	"	ND	----	54.1	"	"	"	"	"	
PCB-1232	"	ND	----	54.1	"	"	"	"	"	
PCB-1242	"	ND	----	54.1	"	"	"	"	"	
PCB-1248	"	ND	----	54.1	"	"	"	"	"	
PCB-1254	"	ND	----	54.1	"	"	"	"	"	
PCB-1260	"	82.9	----	54.1	"	"	"	"	"	
Surrogate(s): TCX		*97.8%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*117%*			*50 - 150 %*	"			"	
SPE0059-50 (35A-0')		**Soil**			**Sampled: 05/09/06 11:15**					
PCB-1016	EPA 8082	ND	----	52.2	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 14:38	
PCB-1221	"	ND	----	52.2	"	"	"	"	"	
PCB-1232	"	ND	----	52.2	"	"	"	"	"	
PCB-1242	"	ND	----	52.2	"	"	"	"	"	
PCB-1248	"	ND	----	52.2	"	"	"	"	"	
PCB-1254	"	ND	----	52.2	"	"	"	"	"	
PCB-1260	"	68.6	----	52.2	"	"	"	"	"	
Surrogate(s): TCX		*112%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*32.3%*			*50 - 150 %*	"			"	*SR-4*
SPE0059-51 (35A-2.5')		**Soil**			**Sampled: 05/08/06 10:00**					
PCB-1016	EPA 8082	ND	----	54.5	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 17:14	
PCB-1221	"	ND	----	54.5	"	"	"	"	"	
PCB-1232	"	ND	----	54.5	"	"	"	"	"	
PCB-1242	"	ND	----	54.5	"	"	"	"	"	
PCB-1248	"	ND	----	54.5	"	"	"	"	"	
PCB-1254	"	ND	----	54.5	"	"	"	"	"	
PCB-1260	"	ND	----	54.5	"	"	"	"	"	
Surrogate(s): TCX		*118%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*140%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name:	CDC-Mead
10 N. Post Suite 218	Project Number:	[none]
Spokane, WA 99201	Project Manager:	Tom Briggs

Report Created: 06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-56 (43B-0')		**Soil**			**Sampled: 05/09/06 11:45**					
PCB-1016	EPA 8082	ND	----	53.2	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 17:41	
PCB-1221	"	ND	----	53.2	"	"	"	"	"	
PCB-1232	"	ND	----	53.2	"	"	"	"	"	
PCB-1242	"	ND	----	53.2	"	"	"	"	"	
PCB-1248	"	ND	----	53.2	"	"	"	"	"	
PCB-1254	"	ND	----	53.2	"	"	"	"	"	
PCB-1260	"	**230**	----	53.2	"	"	"	"	"	
Surrogate(s): TCX		*135%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*102%*			*50 - 150 %*	"			"	
SPE0059-59 (43B-7.5')		**Soil**			**Sampled: 05/09/06 11:10**					
PCB-1016	EPA 8082	ND	----	52.9	ug/kg dry	1x	6050131	05/16/06 09:53	05/19/06 18:09	
PCB-1221	"	ND	----	52.9	"	"	"	"	"	
PCB-1232	"	ND	----	52.9	"	"	"	"	"	
PCB-1242	"	ND	----	52.9	"	"	"	"	"	
PCB-1248	"	ND	----	52.9	"	"	"	"	"	
PCB-1254	"	ND	----	52.9	"	"	"	"	"	
PCB-1260	"	ND	----	52.9	"	"	"	"	"	
Surrogate(s): TCX		*96.1%*			*50 - 150 %*	"			"	
Decachlorobiphenyl		*112%*			*50 - 150 %*	"			"	

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Landau Associates - Spokane	Project Name: CDC-Mead	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL^A	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-01 (B18-0')		**Soil**				**Sampled: 05/09/06 10:30**				
% Solids	Gravimetry	94.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-03 (B18-5')		**Soil**				**Sampled: 05/09/06 09:35**				
% Solids	Gravimetry	90.8	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-04 (B18-7.5')		**Soil**				**Sampled: 05/09/06 09:40**				
% Solids	Gravimetry	94.1	----	0.0100	% by Weight	1x	6050201	05/25/06 08:52	05/25/06 08:53	
SPE0059-05 (B18-10')		**Soil**				**Sampled: 05/09/06 09:45**				
% Solids	Gravimetry	94.3	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-07 (26B(2)-0')		**Soil**				**Sampled: 05/08/06 13:20**				
% Solids	Gravimetry	96.1	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-08 (26B(2)-2.5')		**Soil**				**Sampled: 05/08/06 08:00**				
% Solids	Gravimetry	94.0	----	0.0100	% by Weight	1x	6050201	05/25/06 08:52	05/25/06 08:53	
SPE0059-09 (26B(2)-5')		**Soil**				**Sampled: 05/08/06 08:05**				
% Solids	Gravimetry	91.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-13 (A4A(2)-0')		**Soil**				**Sampled: 05/08/06 07:45**				
% Solids	Gravimetry	86.9	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-15 (A4A(2)-5')		**Soil**				**Sampled: 05/08/06 08:00**				
% Solids	Gravimetry	93.0	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-17 (A4A(2)-10')		**Soil**				**Sampled: 05/08/06 08:10**				
% Solids	Gravimetry	82.6	----	0.0100	% by Weight	1x	6050201	05/25/06 08:52	05/25/06 08:53	
SPE0059-19 (A10A(2)-0')		**Soil**				**Sampled: 05/08/06 08:45**				

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Landau Associates - Spokane	Project Name:	**CDC-Mead**	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-19 (A10A(2)-0')		**Soil**				**Sampled: 05/08/06 08:45**				
% Solids	Gravimetry	93.7	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-20 (A10A(2)-5')		**Soil**				**Sampled: 05/08/06 08:55**				
% Solids	Gravimetry	92.2	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-24 (B46-0')		**Soil**				**Sampled: 05/09/06 12:15**				
% Solids	Gravimetry	88.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-27 (B46-7.5')		**Soil**				**Sampled: 05/09/06 07:40**				
% Solids	Gravimetry	89.8	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-29 (B46-15')		**Soil**				**Sampled: 05/09/06 07:50**				
% Solids	Gravimetry	94.9	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-30 (B46-20')		**Soil**				**Sampled: 05/09/06 07:55**				
% Solids	Gravimetry	96.7	----	0.0100	% by Weight	1x	6050201	05/25/06 08:52	05/25/06 08:53	
SPE0059-32 (B48-0')		**Soil**				**Sampled: 05/09/06 12:30**				
% Solids	Gravimetry	86.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-34 (B48-5')		**Soil**				**Sampled: 05/09/06 08:35**				
% Solids	Gravimetry	87.8	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-36 (B48-10')		**Soil**				**Sampled: 05/09/06 08:45**				
% Solids	Gravimetry	95.1	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-38 (29B-0')		**Soil**				**Sampled: 05/08/06 13:20**				
% Solids	Gravimetry	90.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-39 (29B-2.5')		**Soil**				**Sampled: 05/08/06 09:15**				

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Landau Associates - Spokane	Project Name: **CDC-Mead**	
10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPE0059-39 (29B-2.5')		**Soil**			**Sampled: 05/08/06 09:15**					
% Solids	Gravimetry	94.5	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-44 (31A-0')		**Soil**			**Sampled: 05/09/06 10:45**					
% Solids	Gravimetry	93.1	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-45 (31A-2.5')		**Soil**			**Sampled: 05/08/06 12:00**					
% Solids	Gravimetry	92.4	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-50 (35A-0')		**Soil**			**Sampled: 05/09/06 11:15**					
% Solids	Gravimetry	95.7	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-51 (35A-2.5')		**Soil**			**Sampled: 05/08/06 10:00**					
% Solids	Gravimetry	91.7	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-56 (43B-0')		**Soil**			**Sampled: 05/09/06 11:45**					
% Solids	Gravimetry	94.0	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	
SPE0059-59 (43B-7.5')		**Soil**			**Sampled: 05/09/06 11:10**					
% Solids	Gravimetry	94.6	----	0.0100	% by Weight	1x	6050113	05/12/06 16:33	05/12/06 16:36	

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Landau Associates - Spokane	Project Name:	CDC-Mead	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050097 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050097-BLK1)								Extracted: 05/11/06 09:14						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	05/13/06 03:17	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 81.7%*			*Limits: 50-150%*	"							*05/13/06 03:17*	
p-Terphenyl-d14		*81.7%*			*50-150%*	"							"	
LCS (6050097-BS1)								Extracted: 05/11/06 09:14						
Diesel Range Hydrocarbons	NWTPH-Dx	46.1	---	10.0	mg/kg wet	1x	--	83.3	55.3%	(50-150)	--	--	05/13/06 03:53	
Surrogate(s): 2-FBP		*Recovery: 104%*			*Limits: 50-150%*	"							*05/13/06 03:53*	
p-Terphenyl-d14		*88.3%*			*50-150%*	"							"	
Duplicate (6050097-DUP1)					QC Source: SPE0059-05			Extracted: 05/11/06 09:14						
Diesel Range Hydrocarbons	NWTPH-Dx	159	---	10.6	mg/kg dry	1x	227	--	--	--	35.2%	(25)	05/17/06 21:45	RP-1
Heavy Oil Range Hydrocarbons	"	36.6	---	26.5	"	"	59.6	--	--	--	47.8%	"	"	RP-1
Surrogate(s): 2-FBP		*Recovery: 57.5%*			*Limits: 50-150%*	"							*05/17/06 21:45*	
p-Terphenyl-d14		*83.2%*			*50-150%*	"							"	
Matrix Spike (6050097-MS1)					QC Source: SPE0059-05			Extracted: 05/11/06 09:14						
Diesel Range Hydrocarbons	NWTPH-Dx	413	---	10.6	mg/kg dry	1x	227	87.1	214%	(70-130)	--	--	05/17/06 22:24	MS-3, RP-3
Surrogate(s): 2-FBP		*Recovery: 109%*			*Limits: 50-150%*	"							*05/17/06 22:24*	
p-Terphenyl-d14		*148%*			*50-150%*	"							"	

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Landau Associates - Spokane	Project Name:	**CDC-Mead**	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050108 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050108-BLK1)								Extracted: 05/12/06 08:52						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	05/12/06 18:51	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 87.0%*			*Limits: 50-150%*	"							*05/12/06 18:51*	
p-Terphenyl-d14		*73.5%*			*50-150%*	"							"	
LCS (6050108-BS1)								Extracted: 05/12/06 08:52						
Diesel Range Hydrocarbons	NWTPH-Dx	91.8	---	10.0	mg/kg wet	1x	--	83.3	110%	(50-150)	--	--	05/12/06 19:27	
Surrogate(s): 2-FBP		*Recovery: 97.5%*			*Limits: 50-150%*	"							*05/12/06 19:27*	
p-Terphenyl-d14		*79.6%*			*50-150%*	"							"	
Duplicate (6050108-DUP1)					QC Source: SPE0063-01			Extracted: 05/12/06 08:52						
Diesel Range Hydrocarbons	NWTPH-Dx	59.8	---	13.4	mg/kg dry	1x	63.7	--	--	--	6.32%	(25)	05/12/06 17:39	
Heavy Oil Range Hydrocarbons	"	433	---	33.6	"	"	388	--	--	--	11.0%	"	"	
Surrogate(s): 2-FBP		*Recovery: 79.3%*			*Limits: 50-150%*	"							*05/12/06 17:39*	
p-Terphenyl-d14		*96.3%*			*50-150%*	"							"	
Matrix Spike (6050108-MS1)					QC Source: SPE0063-01			Extracted: 05/12/06 08:52						
Diesel Range Hydrocarbons	NWTPH-Dx	185	---	13.4	mg/kg dry	1x	63.7	111	109%	(70-130)	--	--	05/12/06 18:15	
Surrogate(s): 2-FBP		*Recovery: 107%*			*Limits: 50-150%*	"							*05/12/06 18:15*	
p-Terphenyl-d14		*104%*			*50-150%*	"							"	

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Landau Associates - Spokane	Project Name:	CDC-Mead	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050178 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050178-BLK1)							Extracted: 05/22/06 13:53							
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	05/23/06 23:58	
Heavy Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 78.1%*			*Limits: 50-150%*	"							*05/23/06 23:58*	
p-Terphenyl-d14		*67.8%*			*50-150%*	"							"	
LCS (6050178-BS1)							Extracted: 05/22/06 13:53							
Diesel Range Hydrocarbons	NWTPH-Dx	101	---	10.0	mg/kg wet	1x	--	83.3	121%	(50-150)	--	--	05/24/06 00:35	
Surrogate(s): 2-FBP		*Recovery: 87.9%*			*Limits: 50-150%*	"							*05/24/06 00:35*	
p-Terphenyl-d14		*72.0%*			*50-150%*	"							"	
Duplicate (6050178-DUP1)					QC Source: SPE0059-04		Extracted: 05/22/06 13:53							RP-3
Diesel Range Hydrocarbons	NWTPH-Dx	2280	---	106	mg/kg dry	10x	4640	--	--	--	68.2%	(25)	05/25/06 13:44	
Heavy Oil Range Hydrocarbons	"	437	---	266	"	"	899	--	--	--	69.2%	"	"	
Surrogate(s): 2-FBP		*Recovery: 125%*			*Limits: 50-150%*	"							*05/25/06 13:44*	
p-Terphenyl-d14		*282%*			*50-150%*	"							"	*SR-5*
Matrix Spike (6050178-MS1)					QC Source: SPE0059-04		Extracted: 05/22/06 13:53							MS-5
Diesel Range Hydrocarbons	NWTPH-Dx	3190	---	106	mg/kg dry	10x	4640	88.6	-1640%	(70-130)	--	--	05/25/06 14:20	
Surrogate(s): 2-FBP		*Recovery: 115%*			*Limits: 50-150%*	"							*05/25/06 14:20*	
p-Terphenyl-d14		*340%*			*50-150%*	"							"	*SR-5*

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Spokane, WA 99201	Project Manager:	Tom Briggs

Report Created: 06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050110 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050110-BLK1)							Extracted: 05/12/06 14:37							
PCB-1016	EPA 8082	ND	---	50.0	ug/kg wet	1x	--	--	--	--	--	--	05/15/06 23:57	
PCB-1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1232	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		*Recovery: 129%*			*Limits: 50-150%*	"							*05/15/06 23:57*	
Decachlorobiphenyl		*142%*			*50-150%*	"							"	
LCS (6050110-BS1)							Extracted: 05/12/06 14:37							
PCB-1016	EPA 8082	163	---	50.0	ug/kg wet	1x	--	167	97.6%	(70-130)	--	--	05/16/06 00:25	
PCB-1260	"	170	---	50.0	"	"	--	"	102%	"	--	--	"	
Surrogate(s): TCX		*Recovery: 125%*			*Limits: 50-150%*	"							*05/16/06 00:25*	
Decachlorobiphenyl		*136%*			*50-150%*	"							"	
Matrix Spike (6050110-MS1)					QC Source: SPE0059-01		Extracted: 05/12/06 14:37							MS-3, SR-4
PCB-1016	EPA 8082	38.7	---	52.9	ug/kg dry	1x	ND	176	22.0%	(70-130)	--	--	05/16/06 01:20	
PCB-1260	"	69.5	---	52.9	"	"	61.0	"	4.83%	"	--	--	"	
Surrogate(s): TCX		*Recovery: 160%*			*Limits: 50-150%*	"							*05/16/06 01:20*	
Decachlorobiphenyl		*36.7%*			*50-150%*	"							"	
Matrix Spike Dup (6050110-MSD1)					QC Source: SPE0059-01		Extracted: 05/12/06 14:37							MS-3, SR-4
PCB-1016	EPA 8082	30.7	---	52.9	ug/kg dry	1x	ND	176	17.4%	(70-130)	23.1%	(25)	05/16/06 02:42	
PCB-1260	"	80.2	---	52.9	"	"	61.0	"	10.9%	"	14.3%	"	"	
Surrogate(s): TCX		*Recovery: 143%*			*Limits: 50-150%*	"							*05/16/06 02:42*	
Decachlorobiphenyl		*38.3%*			*50-150%*	"							"	

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Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050131 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050131-BLK1)							Extracted: 05/16/06 09:53							
PCB-1016	EPA 8082	ND	---	50.0	ug/kg wet	1x	--	--	--	--	--	--	05/18/06 17:26	
PCB-1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1232	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		*Recovery: 120%*			*Limits: 50-150%*	"							*05/18/06 17:26*	
Decachlorobiphenyl		*109%*			*50-150%*	"							"	
LCS (6050131-BS1)							Extracted: 05/16/06 09:53							
PCB-1016	EPA 8082	132	---	50.0	ug/kg wet	1x	--	167	79.0%	(70-130)	--	--	05/18/06 17:53	
PCB-1260	"	127	---	50.0	"	"	--	"	76.0%	"	--	--	"	
Surrogate(s): TCX		*Recovery: 120%*			*Limits: 50-150%*	"							*05/18/06 17:53*	
Decachlorobiphenyl		*104%*			*50-150%*	"							"	
Matrix Spike (6050131-MS1)					QC Source: SPE0059-36		Extracted: 05/16/06 09:53							
PCB-1016	EPA 8082	150	---	52.6	ug/kg dry	1x	ND	172	87.2%	(70-130)	--	--	05/18/06 18:21	
PCB-1260	"	178	---	52.6	"	"	15.0	"	94.8%	"	--	--	"	
Surrogate(s): TCX		*Recovery: 118%*			*Limits: 50-150%*	"							*05/18/06 18:21*	
Decachlorobiphenyl		*161%*			*50-150%*	"							"	*SR-2*
Matrix Spike Dup (6050131-MSD1)					QC Source: SPE0059-36		Extracted: 05/16/06 09:53							
PCB-1016	EPA 8082	137	---	52.6	ug/kg dry	1x	ND	168	81.5%	(70-130)	9.06%	(25)	05/18/06 18:49	
PCB-1260	"	166	---	52.6	"	"	15.0	"	89.9%	"	6.98%	"	"	
Surrogate(s): TCX		*Recovery: 110%*			*Limits: 50-150%*	"							*05/18/06 18:49*	
Decachlorobiphenyl		*131%*			*50-150%*	"							"	

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10 N. Post Suite 218	Project Number: [none]	Report Created:
Spokane, WA 99201	Project Manager: Tom Briggs	06/02/06 14:07

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6050179 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6050179-BLK1)							Extracted: 05/23/06 10:45							
PCB-1016	EPA 8082	ND	---	50.0	ug/kg wet	1x	--	--	--	--	--	--	05/26/06 14:22	
PCB-1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1232	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): *TCX*		*Recovery: 125%*			*Limits: 50-150%*	"							*05/26/06 14:22*	
Decachlorobiphenyl		*145%*			*50-150%*	"							"	
LCS (6050179-BS1)							Extracted: 05/23/06 10:45							
PCB-1016	EPA 8082	159	---	50.0	ug/kg wet	1x	--	167	95.2%	(70-130)	--	--	05/26/06 14:49	
PCB-1260	"	182	---	50.0	"	"	--	"	109%	"	--	--	"	
Surrogate(s): *TCX*		*Recovery: 103%*			*Limits: 50-150%*	"							*05/26/06 14:49*	
Decachlorobiphenyl		*131%*			*50-150%*	"							"	
Matrix Spike (6050179-MS1)					QC Source: SPE0059-32		Extracted: 05/23/06 10:45							MS-2
PCB-1016	EPA 8082	38.3	---	112	ug/kg dry	1x	ND	187	20.5%	(70-130)	--	--	05/26/06 15:45	
PCB-1260	"	25.3	---	112	"	"	ND	"	13.5%	"	--	--	"	
Surrogate(s): *TCX*		*Recovery: 96.5%*			*Limits: 50-150%*	"							*05/26/06 15:45*	
Decachlorobiphenyl		*13700%*			*50-150%*	"							"	
Matrix Spike Dup (6050179-MSD1)					QC Source: SPE0059-32		Extracted: 05/23/06 10:45							MS-2
PCB-1016	EPA 8082	22.3	---	108	ug/kg dry	1x	ND	179	12.5%	(70-130)	52.8%	(25)	05/26/06 16:12	
PCB-1260	"	29.3	---	108	"	"	ND	"	16.4%	"	14.7%	"	"	
Surrogate(s): *TCX*		*Recovery: 80.1%*			*Limits: 50-150%*	"							*05/26/06 16:12*	
Decachlorobiphenyl		*13700%*			*50-150%*	"							"	

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Landau Associates - Spokane	Project Name:	CDC-Mead	
10 N. Post Suite 218	Project Number:	[none]	Report Created:
Spokane, WA 99201	Project Manager:	Tom Briggs	06/02/06 14:07

Notes and Definitions

Report Specific Notes:

A-01	-	Sample appears to contain unknown Aroclor(s). Sample was quantitated as 1260 and is therefore an estimate.
MS-2	-	The Matrix Spike and/or Matrix Spike Duplicate were below the acceptance limits due to sample matrix interference. See Laboratory Control Sample.
MS-3	-	The Matrix Spike and/or Matrix Spike Duplicate were above the acceptance limits due to sample matrix interference. See Laboratory Control Sample.
MS-5	-	No results were reported for the Matrix Spike/Matrix Spike Duplicate. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
RP-1	-	The RPD exceeded the laboratory control limit due to sample matrix interference. The individual analyte QA/QC recoveries, however, were within laboratory control limits.
RP-3	-	The RPD exceeded the laboratory control limit due to sample matrix effects.
SR-1	-	Surrogate recovery was below the acceptance limits.
SR-2	-	Surrogate recovery was above the acceptance limits.
SR-4	-	Due to sample matrix effects, the surrogate recovery was outside laboratory control limits.
SR-5	-	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Dennis D Wells, Laboratory Director