

Golder Associates Inc.

18300 NE Union Hill Road, Suite 200
Redmond, WA USA 98052-3333
Telephone (425) 883-0777
Fax (425) 882-5498
www.golder.com



June 17, 2005

Our Ref: 923-1000-002.R273

Palmer Coking Coal Company
31407 Highway 169
P.O. Box 10
Black Diamond, Washington 98010

Attention: Mr. Bill Kombol

**RE: LANDSBURG MINE SITE INTERIM GROUNDWATER MONITORING
RESULTS– MAY, 2005**

Dear Mr. Kombol:

Golder Associates Inc. (Golder) completed an interim groundwater monitoring event at the Landsburg Mine Site during May, 2005. Groundwater samples were collected from monitoring wells LMW-2, LMW-3, LMW-4, LMW-5, LMW-6, LMW-7, LMW-8, LMW-9 and LMW-10 (see Figure 1). Monitoring wells LMW-2, LMW-4 and LMW-10 are completed to monitor shallow and deeper zones within the Rogers coal seam north of the Rogers Coal mine subsidence trench, and LMW-3 and LMW-5 are completed to monitor shallow and deeper zones within the Rogers coal seam south of the subsidence trench. These wells lay along the primary pathways for detection of a chemical release from the mine, were one to occur. Groundwater from LMW-9 represent shallow groundwater within the Rogers mine and provide an early indication of potential contamination migrating toward the south end in the upper horizon of the water table. Samples were also collected of the groundwater from LMW-8, which is a shallow well monitoring the Rogers Portal #3 groundwater discharge and is a replacement for sampling the surface water discharge at the portal. LMW-8 provides a more representative water quality sample of the Rogers Portal #3 discharge than a sample of the surface water. LMW-6 and LMW-7 monitoring wells obtain groundwater from the Frasier and Landsburg coal mines, respectively, to the west and east of the Rogers coal mine.

Groundwater sampling was conducted in accordance with the *Draft Interim Groundwater Monitoring Plan, Landsburg Mine Site* (Golder, 1997), and included the following activities:

- Measurement of static water levels at monitoring wells,
- Well purging to insure sample representativeness with the currently installed dedicated pumping systems,
- Measurement of field parameters pH, specific conductance, temperature, dissolved oxygen, and turbidity,
- Collection of representative samples in appropriate containers; metals samples were field filtered using an inline 0.45 µm filter.



- Analyses of groundwater for volatile organic compounds (EPA Method 8260), priority pollutant metals (with the additions of iron and manganese) and a petroleum hydrocarbon identification scan.

The attached Table 1 presents analytical results for all analyses. Laboratory analytical reports are provided in Appendix A. The attached Table 2 presents water depth measurements collected from wells prior to sampling activities. Groundwater levels are similar to previous monitoring periods and indicate that groundwater is discharging out both ends of the Rogers Coal mine.

Following sample collection, all bottles were sealed, labeled and placed in a cooler maintained at approximately 4° C. All groundwater samples from monitoring wells were transported under chain-of-custody procedures to North Creek Analytical, Inc. for analyses, located in Bothell, Washington. Analysis on all water samples included volatiles by EPA Method 8260, priority metals suite of 13 analytes with the addition of manganese and iron, and a fuel hydrocarbon scan.

Screening levels are based on maximum contaminant levels (MCLs) or State of Washington MTCA Method B groundwater cleanup levels whichever value is less. In cases where an established MCL or Method B Cleanup Level does not exist, a similar (surrogate) compound regulatory screening level is identified for comparison.

The analytical results indicate no significant changes in groundwater conditions from those observed during the remedial investigation (RI). One groundwater sample contained a detectable volatile organic compound: LMW-10 had detectable benzene at 0.22 µg/L. A duplicate sample was collected from LMW-10 also showing benzene concentrations at 0.22 µg/L. These detections are much below the MTCA levels as follows¹:

- Benzene - MTCA cleanup level is 5µg/L for groundwater and 22.7 µg/L for surface water.

Groundwater monitoring results from samples collected during previous quarters also showed slight concentrations of both benzene and toluene within LMW-10 (April/May, 2004 data showed benzene and toluene at 0.39 µg/L and 0.68 µg/L, respectively; August, 2004 data showed benzene and toluene at 0.29 µg/L and 0.44 µg/L, respectively; and November, 2004 data showed benzene and toluene at 0.24 µg/L and 0.31 µg/L, respectively). The concentrations of the observed benzene remaining are only slightly above the reportable limits of the laboratory (0.20 µg/L) and toluene has apparently reduced in concentration to below laboratory reporting limits. If concentration trends persist, it is anticipated that both benzene will also not be detectable the next quarter samples are collected.

Also, chloroform was present in the field blank at a trace concentration. This compound did not show up in any other groundwater or quality control samples allowing the conclusion that it may have been either accidentally introduced during lab processing or was present in the deionized water used for the sample.


¹ Ecology, Washington State Department of, 2001. *Cleanup Levels and Risk Calculations under the Model Toxics Control Act Cleanup Regulations*. Publication No. 94-145. Olympia, Washington

Iron and manganese are the only metals that were detected at concentrations in excess of the screening levels of 0.3 µg/L and 0.05 µg/L, respectively. For these compounds, the only screening levels are secondary maximum contaminant levels (SMCLs) which are not health-based standards, but are protective of aesthetic qualities of water. The concentrations of iron and manganese detected during the May, 2005 sampling are similar to concentrations detected during the RI (Golder, 1996)² and the Interim Groundwater Sampling events held previously.

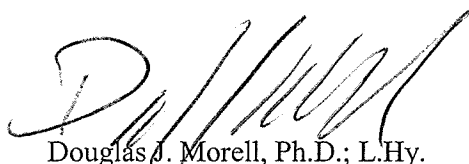
If you have any questions or require any additional information, please contact Douglas Morell at (425) 883-0777.

Sincerely,

GOLDER ASSOCIATES INC.



For Ryan Vannier, L.G.
Project Hydrogeologist



Douglas J. Morell, Ph.D.; L.Hy.
Principal

RGV/DJM/se

² Golder Associates Inc., 1996. *Remedial Investigation and Feasibility Study for the Landsburg Mine Site*. Landsburg PLP Steering Committee.

TABLES

MAY, 2005 GROUNDWATER ANALYTICAL RESULTS
LANDSBURG MINE SITE

ANALYTE	UNITS	LMW-2 5/10/2005	LMW-3 5/11/2005	LMW-4 5/10/2005	LMW-5 5/11/2005	LMW-6 5/10/2005	LMW-7 5/10/2005	LMW-8 5/11/2005	LMW-9 5/11/2005	LMW-10 5/10/2005	DuplicateL MW-10 5/10/2005	Field Blank 5/10/2005
Field Parameter												
pH	std	6.79	7.45	6.78	6.75	6.57	6.89	6.54	6.80	8.41	8.41	NA
Conductivity	uS/cm	487	202	469	382	147.1	375	169.8	382	264	264	NA
Dissolved Oxygen	mg/L	0.08	0.02	0.04	0.08	0.08	0.13	2.98	0.04	0.19	0.19	NA
Temperature	°C	11.0	11.3	11.0	11.1	10.1	12.3	10.7	12.2	10.4	10.4	NA
Turbidity	NTU	1.18	0.63	0.17	0.35	0.61	0.29	287	1.87	0.50	0.50	NA
Metals												
Antimony	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Arsenic	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00207	0.00161	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chromium	mg/L	0.00253	0.001 U	0.00220	0.001 U	0.001 U	0.00104	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Copper	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Iron	mg/L	0.150 U	0.150 U	0.635	0.280	2.19	0.921	3.79	1.64	0.150 U	0.150 U	0.150 U
Lead	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese	mg/L	0.204	0.0750	0.186	0.225	0.0295	0.129	0.533	0.172	0.01 U	0.01 U	0.01 U
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.000204	0.0002 U	0.0002 U
Nickel	mg/L	0.001 U	0.00113	0.001 U	0.001 U	0.001 U	0.001 U	0.00221	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Zinc	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

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Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Chlorotoluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chlorotoluene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.220	0.220	0.2 U
Bromobenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromomethane	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

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Chloroethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.430
Chloromethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl tert-butyl ether	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
p-Isopropyltoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Styrene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hydrocarbon Identification												
Diesel Range	mg/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Gas Range	mg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Heavy Fuel Oil	mg/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Insulating Oil	mg/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Kerosene Range	mg/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Lube Oil Range	mg/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U

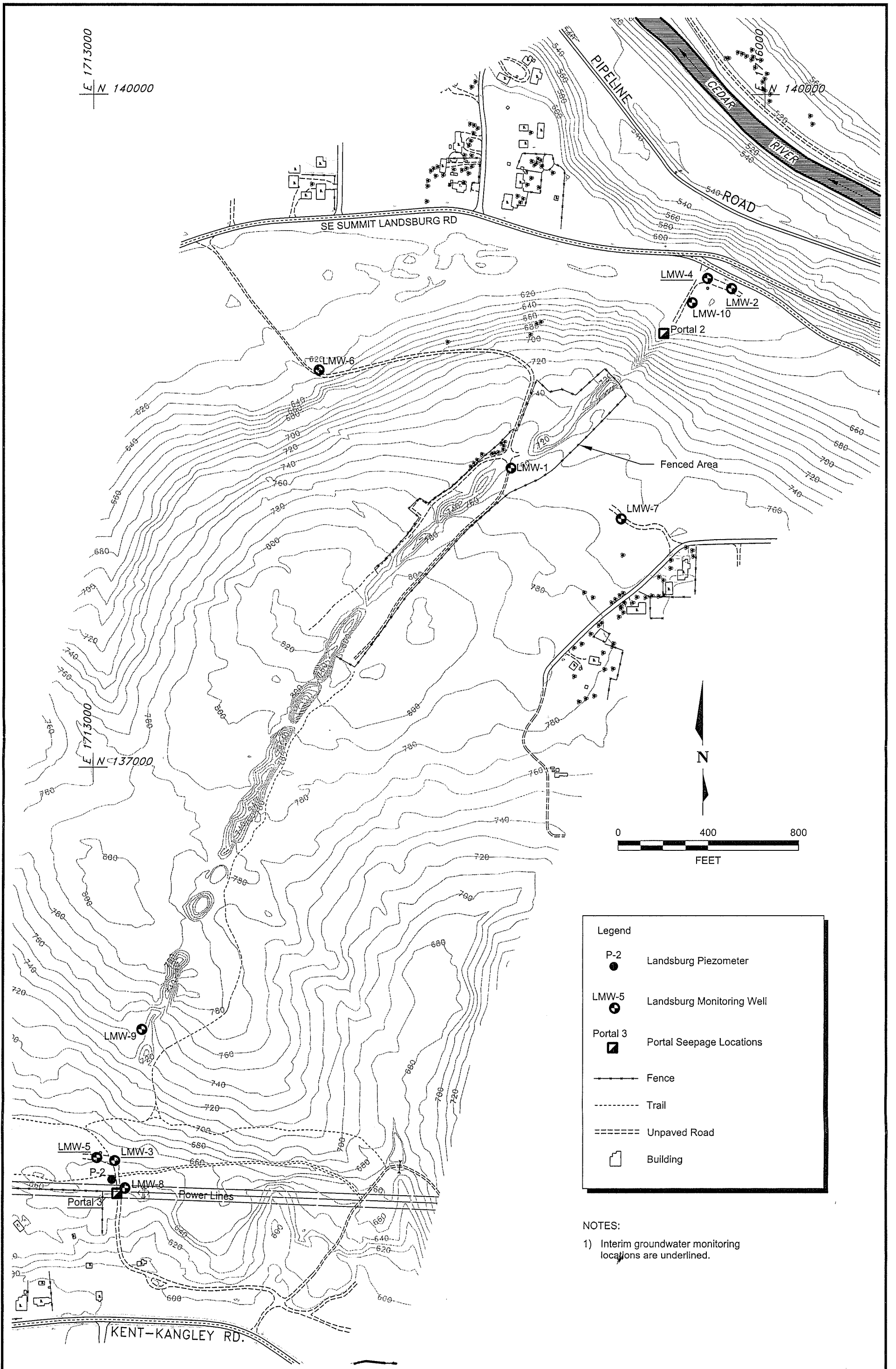
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TABLE 2

GROUNDWATER ELEVATION DATA COLLECTED 11/16/04
LANDSBURG MINE SITE

	UNITS	LMW-1	LMW-1a	LMW-2	LMW-3	LMW-4	LMW-5	LMW-6	LMW-7	LMW-8	LMW-9	LMW-10	P-2	Water Drainage	Frazier Seam Tunnel
Water Depths															
Time of data collection	ft bgs	1003	1006	0944	0902	0942	0906	0955	0927	0855	0912	0939	0900	NA	NA
Measured to Top of PVC	ft bgs	145.82	137.80	6.64	12.20	8.10*	13.75	25.53	212.94*	3.67	99.52	Artesian	6.81	NA	NA
Measured to Top of Monument	ft bgs	146.60	NC	7.30	NC	8.78*	NC	26.25	213.43*	NC	NC	Artesian	NC	NA	NA
Surveyed Elevation															
Top of PVC	ft asl	NC	759.51	NC	656.75	NC	658.27	632.33	NC	646.97	743.99	618.87	651.37	NA	NA
Top of Monument	ft asl	765.89	NC	618.29	657.48	619.85	658.87	633.00	771.88	NC	NC	NC	NC	NA	NA
Ground Level	ft asl	762.90	756.59	615.35	654.40	617.09	655.63	629.95	768.79	645.25	741.13	615.75	648.54	551.38	542.15
Corrected Water Elevation															
Using PVC elevation	ft asl	NC	621.71	NC	644.55	NC	644.52	606.80	NC	643.30	644.47	Artesian	644.56	NA	NA
Using Monument elevation	ft asl	619.29	NC	610.99	NC	611.07*	NC	606.75	558.45*	NC	NC	Artesian	NC	NA	NA
Notes: * = Data corrected to accomodate well inclination of 70° NA = Not applicable. NC = Data not collected.															

FIGURE



Legend

- P-2 Landsburg Piezometer
- LMW-5 Landsburg Monitoring Well
- Portal 3 Portal Seepage Locations
- Fence
- Trail
- Unpaved Road
- Building

NOTES:
 1) Interim groundwater monitoring locations are underlined.

FIGURE 1
GROUNDWATER MONITORING LOCATIONS
 PALMER/LANDBURG MINE/WA

APPENDIX A

LABORATORY DATA



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

27 May 2005

Douglas Morell
Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333
RE: Landsburg Mine

Enclosed are the results of analyses for samples received by the laboratory on 05/11/05 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer For Amar Gill
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
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541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

CASE NARRATIVE for B5E0309

Client: Golder Associates Inc.
Project Manager: Douglass Morell
Project Name: Landsburg Mine
Project Number: 923-1000.002

1.0 DESCRIPTION OF CASE

Seven water samples were received for analysis of the following: Hydrocarbon Identification by Washington DOE Method NWTPH-HCID, Dissolved Metals by EPA 6000/7000 Series Methods, and Volatile Organic Compounds by EPA Method 8260B.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on May 11, 2005. Sample temperature at time of receipt was 4.3 ° C.

3.0 PREPARATIONS AND ANALYSIS

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Dissolved Metals by EPA 6000/7000 Series Methods

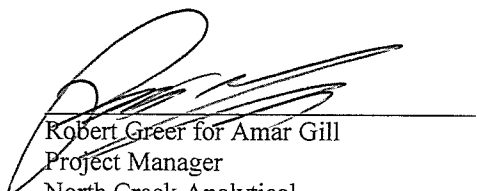
No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Organic Compounds by EPA Method 8260B

All criteria for acceptable QC measurements were met, except for the following:

The spike recovery of Toluene for the BS in analytical batch 5E12071 was below the established control limits. The spike recoveries for the BSD, MS, and MSD for Naphthalene were all within the established control limits. All associated laboratory samples were non-detect for Naphthalene.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.



Robert Greer for Amar Gill
Project Manager
North Creek Analytical



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
---	--	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW6-051005	B5E0309-01	Water	05/10/05 11:40	05/11/05 13:15
LMW10-051005	B5E0309-02	Water	05/10/05 17:30	05/11/05 13:15
LMW11-051005	B5E0309-03	Water	05/10/05 13:00	05/11/05 13:15
FBLMW10-051005	B5E0309-04	Water	05/10/05 13:15	05/11/05 13:15
LMW2-051005	B5E0309-05	Water	05/10/05 14:30	05/11/05 13:15
LMW4-051005	B5E0309-06	Water	05/10/05 15:50	05/11/05 13:15
LMW7-051005	B5E0309-07	Water	05/10/05 16:55	05/11/05 13:15

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

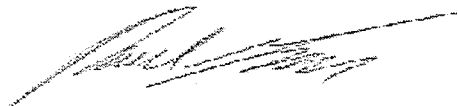
Reported:
 05/27/05 10:30

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-051005 (B5E0309-01) Water Sampled: 05/10/05 11:40 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	80.4 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	90.6 %	50-150			"	"	"	"	
LMW10-051005 (B5E0309-02) Water Sampled: 05/10/05 17:30 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	82.7 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	91.1 %	50-150			"	"	"	"	
LMW11-051005 (B5E0309-03) Water Sampled: 05/10/05 13:00 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	69.0 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	86.9 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
---	--	-----------------------------

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FBLMW10-051005 (B5E0309-04) Water Sampled: 05/10/05 13:15 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	69.6 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	86.0 %	50-150			"	"	"	"	
LMW2-051005 (B5E0309-05) Water Sampled: 05/10/05 14:30 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	78.4 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	92.2 %	50-150			"	"	"	"	
LMW4-051005 (B5E0309-06) Water Sampled: 05/10/05 15:50 Received: 05/11/05 13:15 Q-29									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	81.2 %	50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	93.6 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW7-051005 (B5E0309-07) Water										
Sampled: 05/10/05 16:55 Received: 05/11/05 13:15 Q-29										
Gx Range Hydrocarbons	ND	0.250		mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630		"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630		"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630		"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630		"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630		"	"	"	"	"	"	
Surrogate: 2-FBP	79.8 %	50-150				"	"	"	"	
Surrogate: Octacosane	88.7 %	50-150				"	"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30


Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-051005 (B5E0309-01) Water Sampled: 05/10/05 11:40 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	2.19	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	0.0295	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW10-051005 (B5E0309-02) Water Sampled: 05/10/05 17:30 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	0.000204	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	ND	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW11-051005 (B5E0309-03) Water Sampled: 05/10/05 13:00 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	ND	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

FBLMW10-051005 (B5E0309-04) Water Sampled: 05/10/05 13:15 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	ND	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

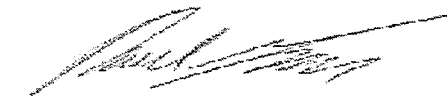
Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW2-051005 (B5E0309-05) Water Sampled: 05/10/05 14:30 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.00253	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	0.204	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW4-051005 (B5E0309-06) Water Sampled: 05/10/05 15:50 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.00220	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.635	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	0.186	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7568
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
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Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW7-051005 (B5E0309-07) Water Sampled: 05/10/05 16:55 Received: 05/11/05 13:15									
Silver	ND	0.00100	mg/l	1	5E12049	05/12/05	05/18/05	EPA 6020 - Diss	
Arsenic	0.00207	0.00100	"	"	"	"	05/14/05	"	
Beryllium	ND	0.00100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	0.00104	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.921	0.150	"	"	5E17041	05/17/05	05/26/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E17031	05/17/05	05/17/05	EPA 7470A - Diss	
Manganese	0.129	0.0100	"	"	5E12049	05/12/05	05/14/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/18/05	"	
Selenium	ND	0.00100	"	"	"	"	"	"	
Thallium	ND	0.00100	"	"	"	"	05/14/05	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 541.383.9310 fax 541.382.7588
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

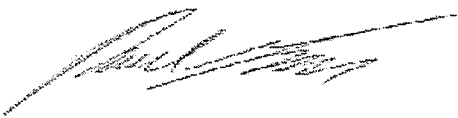
Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-051005 (B5E0309-01) Water Sampled: 05/10/05 11:40 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell


Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW6-051005 (B5E0309-01) Water Sampled: 05/10/05 11:40 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-BFB	99.8 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW10-051005 (B5E0309-02) Water Sampled: 05/10/05 17:30 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	0.220	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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 18300 NE Union Hill Rd, Suite 200
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Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell


Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW10-051005 (B5E0309-02) Water Sampled: 05/10/05 17:30 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

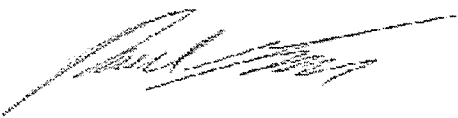
Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW11-051005 (B5E0309-03) Water Sampled: 05/10/05 13:00 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	"
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	"
2-Butanone	ND	2.00	"	"	"	"	"	"	"
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	"
2-Hexanone	ND	2.00	"	"	"	"	"	"	"
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	"
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	"
Acetone	ND	10.0	"	"	"	"	"	"	"
Benzene	0.220	0.200	"	"	"	"	"	"	"
Bromobenzene	ND	0.500	"	"	"	"	"	"	"
Bromochloromethane	ND	0.200	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	"
Bromoform	ND	0.200	"	"	"	"	"	"	"
Bromomethane	ND	2.00	"	"	"	"	"	"	"
Carbon disulfide	ND	0.500	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW11-051005 (B5E0309-03) Water Sampled: 05/10/05 13:00 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell


Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FBLMW10-051005 (B5E0309-04) Water Sampled: 05/10/05 13:15 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FBLMW10-051005 (B5E0309-04) Water Sampled: 05/10/05 13:15 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	0.430	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

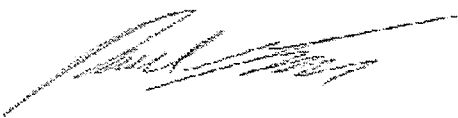
Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW2-051005 (B5E0309-05) Water Sampled: 05/10/05 14:30 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell


Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW2-051005 (B5E0309-05) Water Sampled: 05/10/05 14:30 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
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Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-051005 (B5E0309-06) Water Sampled: 05/10/05 15:50 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell


Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW4-051005 (B5E0309-06) Water Sampled: 05/10/05 15:50 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	100 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW7-051005 (B5E0309-07) Water Sampled: 05/10/05 16:55 Received: 05/11/05 13:15									
1,1,1,2-Tetrachloroethane	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

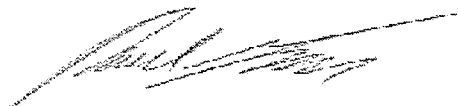
Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW7-051005 (B5E0309-07) Water Sampled: 05/10/05 16:55 Received: 05/11/05 13:15									
Chlorobenzene	ND	0.200	ug/l	1	5E12071	05/12/05	05/12/05	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	98.5 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E17005: Prepared 05/17/05 Using EPA 3520C

Blank (5E17005-BLK1)

Gx Range Hydrocarbons	ND	0.250	mg/l							
Kerosene Range Hydrocarbons	ND	0.630	"							
Diesel Range Hydrocarbons	ND	0.630	"							
Insulating Oil Range Hydrocarbons	ND	0.630	"							
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"							
Lube Oil Range Hydrocarbons	ND	0.630	"							
Surrogate: 2-FBP	DET		"	0.250		80.0	50-150			
Surrogate: Octacosane	DET		"	0.250		93.6	50-150			

LCS (5E17005-BS1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	2.00		66.5	50-150			
Surrogate: 2-FBP	DET		"	0.250		67.6	50-150			

LCS Dup (5E17005-BSD1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	2.00		73.5	50-150	10.0	40	
Surrogate: 2-FBP	DET		"	0.250		80.0	50-150			

Duplicate (5E17005-DUP1)

Source: B5E0309-01

Gx Range Hydrocarbons	0.0932	0.250	mg/l		0.106			12.9	50	
Kerosene Range Hydrocarbons	0.0741	0.630	"		0.0809			8.77	50	
Diesel Range Hydrocarbons	0.0490	0.630	"		0.0504			2.82	50	
Insulating Oil Range Hydrocarbons	0.0818	0.630	"		0.0855			4.42	50	
Heavy Fuel Oil Range Hydrocarbons	0.126	0.630	"		0.129			2.35	50	
Lube Oil Range Hydrocarbons	0.0517	0.630	"		0.0527			1.92	50	
Surrogate: 2-FBP	DET		"	0.245		75.5	50-150			
Surrogate: Octacosane	DET		"	0.245		91.8	50-150			


Matrix Spike (5E17005-MS1)

Source: B5E0309-05

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.98	0.0585	70.8	25-149			
Surrogate: 2-FBP	DET		"	0.248		78.2	50-150			

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17005: Prepared 05/17/05 Using EPA 3520C

Matrix Spike Dup (5E17005-MSD1)

Source: B5E0309-05

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.98	0.0585	64.2	25-149	9.32	40	
Surrogate: 2-FBP	DET		"	0.248		70.6	50-150			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12049: Prepared 05/12/05 Using EPA 3005A

Blank (5E12049-BLK1)


Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Manganese	ND	0.0100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
Zinc	ND	0.0100	"							

LCS (5E12049-BS1)

Silver	0.212	0.00100	mg/l	0.200		106	80-120			
Arsenic	0.206	0.00100	"	0.200		103	80-120			
Beryllium	0.202	0.00100	"	0.200		101	80-120			
Cadmium	0.209	0.00100	"	0.200		104	80-120			
Chromium	0.206	0.00100	"	0.200		103	80-120			
Copper	0.204	0.00100	"	0.200		102	80-120			
Manganese	0.208	0.0100	"	0.200		104	80-120			
Nickel	0.205	0.00100	"	0.200		102	80-120			
Lead	0.212	0.00100	"	0.200		106	80-120			
Antimony	0.0531	0.00300	"	0.0500		106	80-120			
Selenium	0.209	0.00100	"	0.200		104	80-120			
Thallium	0.212	0.00100	"	0.200		106	80-120			
Zinc	0.217	0.0100	"	0.200		108	80-120			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12049: Prepared 05/12/05 Using EPA 3005A

LCS Dup (5E12049-BSD1)

Silver	0.212	0.00100	mg/l	0.200		106	80-120	0.00	20	
Arsenic	0.208	0.00100	"	0.200		104	80-120	0.966	20	
Beryllium	0.202	0.00100	"	0.200		101	80-120	0.00	20	
Cadmium	0.208	0.00100	"	0.200		104	80-120	0.480	20	
Chromium	0.210	0.00100	"	0.200		105	80-120	1.92	20	
Copper	0.207	0.00100	"	0.200		104	80-120	1.46	20	
Manganese	0.212	0.0100	"	0.200		106	80-120	1.90	20	
Nickel	0.207	0.00100	"	0.200		104	80-120	0.971	20	
Lead	0.216	0.00100	"	0.200		108	80-120	1.87	20	
Antimony	0.0534	0.00300	"	0.0500		107	80-120	0.563	20	
Selenium	0.210	0.00100	"	0.200		105	80-120	0.477	20	
Thallium	0.214	0.00100	"	0.200		107	80-120	0.939	20	
Zinc	0.218	0.0100	"	0.200		109	80-120	0.460	20	

Matrix Spike (5E12049-MS1)

Source: B5E0205-07

Silver	0.0600	0.00100	mg/l	0.100	ND	60.0	43-124			
Arsenic	0.124	0.00100	"	0.100	0.0221	102	70-138			
Beryllium	0.0967	0.00100	"	0.100	ND	96.7	80-125			
Cadmium	0.0945	0.00100	"	0.100	ND	94.5	80-125			
Chromium	0.0917	0.00100	"	0.100	0.000580	91.1	76-125			
Copper	0.0899	0.00100	"	0.101	0.0000700	88.9	71-125			
Nickel	0.129	0.00100	"	0.0995	0.0408	88.6	73-125			
Lead	0.0924	0.00100	"	0.0995	0.0000800	92.8	78-125			
Antimony	0.0319	0.00300	"	0.0500	0.000270	63.3	63-126			
Selenium	0.103	0.00100	"	0.100	0.00164	101	61-156			
Thallium	0.0937	0.00100	"	0.100	ND	93.7	78-125			
Zinc	0.102	0.0100	"	0.0995	0.00179	101	70-127			

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Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12049: Prepared 05/12/05 Using EPA 3005A

Matrix Spike (5E12049-MS2)

Source: B5E0309-05

Silver	0.0723	0.00100	mg/l	0.100	ND	72.3	43-124			
Arsenic	0.105	0.00100	"	0.100	0.000450	105	70-138			
Beryllium	0.0952	0.00100	"	0.100	ND	95.2	80-125			
Cadmium	0.0932	0.00100	"	0.100	ND	93.2	80-125			
Chromium	0.0939	0.00100	"	0.100	0.00253	91.4	76-125			
Copper	0.0556	0.00100	"	0.101	0.000230	54.8	71-125			Q-02
Manganese	0.295	0.0100	"	0.100	0.204	91.0	54-158			
Nickel	0.0886	0.00100	"	0.0995	0.000740	88.3	73-125			
Lead	0.0892	0.00100	"	0.0995	ND	89.6	78-125			
Antimony	0.0398	0.00300	"	0.0500	ND	79.6	63-126			
Selenium	0.0703	0.00100	"	0.100	0.000650	69.6	61-156			
Thallium	0.0930	0.00100	"	0.100	ND	93.0	78-125			
Zinc	0.0999	0.0100	"	0.0995	0.00253	97.9	70-127			

Matrix Spike (5E12049-MS3)

Source: B5E0205-07RE1

Manganese	0.494	0.0500	mg/l	0.100	0.399	95.0	54-158			
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Matrix Spike Dup (5E12049-MSD1)

Source: B5E0205-07

Silver	0.0675	0.00100	mg/l	0.100	ND	67.5	43-124	11.8	50	
Arsenic	0.121	0.00100	"	0.100	0.0221	98.9	70-138	2.45	20	
Beryllium	0.0943	0.00100	"	0.100	ND	94.3	80-125	2.51	20	
Cadmium	0.0919	0.00100	"	0.100	ND	91.9	80-125	2.79	20	
Chromium	0.0891	0.00100	"	0.100	0.000580	88.5	76-125	2.88	20	
Copper	0.0868	0.00100	"	0.101	0.0000700	85.9	71-125	3.51	20	
Nickel	0.126	0.00100	"	0.0995	0.0408	85.6	73-125	2.35	20	
Lead	0.0896	0.00100	"	0.0995	0.0000800	90.0	78-125	3.08	20	
Antimony	0.0349	0.00300	"	0.0500	0.000270	69.3	63-126	8.98	20	
Selenium	0.106	0.00100	"	0.100	0.00164	104	61-156	2.87	20	
Thallium	0.0900	0.00100	"	0.100	ND	90.0	78-125	4.03	20	
Zinc	0.0983	0.0100	"	0.0995	0.00179	97.0	70-127	3.69	20	

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12049: Prepared 05/12/05 Using EPA 3005A

Matrix Spike Dup (5E12049-MSD2)				Source: B5E0309-05						
Silver	0.0696	0.00100	mg/l	0.100	ND	69.6	43-124	3.81	50	
Arsenic	0.101	0.00100	"	0.100	0.000450	101	70-138	3.88	20	
Beryllium	0.0935	0.00100	"	0.100	ND	93.5	80-125	1.80	20	
Cadmium	0.0929	0.00100	"	0.100	ND	92.9	80-125	0.322	20	
Chromium	0.0926	0.00100	"	0.100	0.00253	90.1	76-125	1.39	20	
Copper	0.0542	0.00100	"	0.101	0.000230	53.4	71-125	2.55	20	Q-02
Manganese	0.293	0.0100	"	0.100	0.204	89.0	54-158	0.680	20	
Nickel	0.0871	0.00100	"	0.0995	0.000740	86.8	73-125	1.71	20	
Lead	0.0883	0.00100	"	0.0995	ND	88.7	78-125	1.01	20	
Antimony	0.0396	0.00300	"	0.0500	ND	79.2	63-126	0.504	20	
Selenium	0.0672	0.00100	"	0.100	0.000650	66.6	61-156	4.51	20	
Thallium	0.0923	0.00100	"	0.100	ND	92.3	78-125	0.756	20	
Zinc	0.0996	0.0100	"	0.0995	0.00253	97.6	70-127	0.301	20	

Matrix Spike Dup (5E12049-MSD3)

Source: B5E0205-07RE1

Manganese	0.476	0.0500	mg/l	0.100	0.399	77.0	54-158	3.71	20	
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Batch 5E17031: Prepared 05/17/05 Using EPA 7470A

Blank (5E17031-BLK1)

Mercury	ND	0.000200	mg/l							
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LCS (5E17031-BS1)

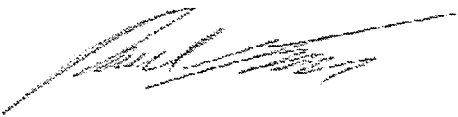
Mercury	0.00503	0.000200	mg/l	0.00500		101	80-120			
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LCS Dup (5E17031-BSD1)

Mercury	0.00503	0.000200	mg/l	0.00500		101	80-120	0.00	20	
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North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17031: Prepared 05/17/05 Using EPA 7470A

Duplicate (5E17031-DUP1)

Source: B5E0309-05

Mercury	ND	0.000200	mg/l		0.0000501				20	
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Matrix Spike (5E17031-MS1)

Source: B5E0309-05

Mercury	0.00509	0.000200	mg/l	0.00500	0.0000501	101	70-130			
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Matrix Spike (5E17031-MS2)

Source: B5E0462-01

Mercury	0.00344	0.000200	mg/l	0.00500	ND	68.8	70-130			Q-01
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Matrix Spike Dup (5E17031-MSD1)

Source: B5E0309-05

Mercury	0.00538	0.000200	mg/l	0.00500	0.0000501	107	70-130	5.54	20	
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Batch 5E17041: Prepared 05/17/05 Using EPA 3010A

Blank (5E17041-BLK1)

Iron	ND	0.150	mg/l							
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LCS (5E17041-BS1)

Iron	4.64	0.150	mg/l	5.00		92.8	80-120			
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LCS Dup (5E17041-BSD1)

Iron	4.70	0.150	mg/l	5.00		94.0	80-120	1.28	20	
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Matrix Spike (5E17041-MS1)

Source: B5E0309-05

Iron	4.77	0.150	mg/l	5.00	0.103	93.3	80-120			
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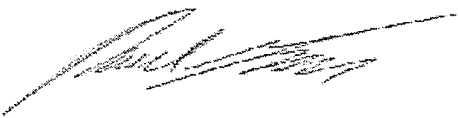
Matrix Spike Dup (5E17041-MSD1)

Source: B5E0309-05

Iron	4.77	0.150	mg/l	5.00	0.103	93.3	80-120	0.00	20	
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North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Blank (5E12071-BLK1)

1,1,1,2-Tetrachloroethane	ND	0.200	ug/l							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.200	"							
1,1-Dichloroethane	ND	0.200	"							
1,1-Dichloroethene	ND	0.200	"							
1,1-Dichloropropene	ND	0.200	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.200	"							
1,2-Dichlorobenzene	ND	0.200	"							
1,2-Dichloroethane	ND	0.200	"							
1,2-Dichloropropane	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.200	"							
1,3-Dichloropropane	ND	0.200	"							
1,4-Dichlorobenzene	ND	0.200	"							
2,2-Dichloropropane	ND	0.500	"							
2-Butanone	ND	2.00	"							
2-Chlorotoluene	ND	0.500	"							
2-Hexanone	ND	2.00	"							
4-Chlorotoluene	ND	0.500	"							
4-Methyl-2-pentanone	ND	2.00	"							
Acetone	ND	10.0	"							
Benzene	ND	0.200	"							
Bromobenzene	ND	0.500	"							
Bromochloromethane	ND	0.200	"							
Bromodichloromethane	ND	0.200	"							
Bromoform	ND	0.200	"							
Bromomethane	ND	2.00	"							
Carbon disulfide	ND	0.500	"							

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Blank (5E12071-BLK1)

Carbon tetrachloride	ND	0.200	ug/l							
Chlorobenzene	ND	0.200	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.200	"							
Chloromethane	ND	1.00	"							
cis-1,2-Dichloroethene	ND	0.200	"							
cis-1,3-Dichloropropene	ND	0.200	"							
Dibromochloromethane	ND	0.200	"							
Dibromomethane	ND	0.200	"							
Dichlorodifluoromethane	ND	0.500	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Isopropylbenzene	ND	0.500	"							
m,p-Xylene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	5.00	"							
n-Butylbenzene	ND	0.200	"							
n-Hexane	ND	1.00	"							
n-Propylbenzene	ND	0.500	"							
Naphthalene	ND	0.500	"							
o-Xylene	ND	0.250	"							
p-Isopropyltoluene	ND	0.200	"							
sec-Butylbenzene	ND	0.200	"							
Styrene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
trans-1,2-Dichloroethene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
Surrogate: 1,2-DCA-d4	4.43		"	4.00		111	70-130			

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Blank (5E12071-BLK1)

Surrogate: Toluene-d8	3.88		ug/l	4.00		97.0	70-130			
Surrogate: 4-BFB	4.11		"	4.00		103	70-130			

LCS (5E12071-BS1)

1,1,1,2-Tetrachloroethane	3.93	0.200	ug/l	4.00		98.2	80-120			
1,1,1-Trichloroethane	4.10	0.200	"	4.00		102	80-120			
1,1,2,2-Tetrachloroethane	3.60	0.500	"	4.00		90.0	80-120			
1,1,2-Trichloroethane	3.57	0.200	"	4.00		89.2	80-120			
1,1-Dichloroethane	3.68	0.200	"	4.00		92.0	80-120			
1,1-Dichloroethene	3.98	0.200	"	4.00		99.5	80-120			
1,1-Dichloropropene	3.97	0.200	"	4.00		99.2	80-120			
1,2,3-Trichlorobenzene	3.40	0.200	"	4.00		85.0	80-120			
1,2,3-Trichloropropane	3.61	0.500	"	4.00		90.2	80-120			
1,2,4-Trichlorobenzene	3.53	0.200	"	4.00		88.2	80-120			
1,2,4-Trimethylbenzene	3.84	0.200	"	4.00		96.0	80-120			
1,2-Dibromo-3-chloropropane	3.57	0.500	"	4.00		89.2	80-120			
1,2-Dibromoethane	3.75	0.200	"	4.00		93.8	80-120			
1,2-Dichlorobenzene	3.71	0.200	"	4.00		92.8	80-120			
1,2-Dichloroethane	3.88	0.200	"	4.00		97.0	80-120			
1,2-Dichloropropane	3.79	0.200	"	4.00		94.8	80-120			
1,3,5-Trimethylbenzene	3.87	0.500	"	4.00		96.8	80-120			
1,3-Dichlorobenzene	3.65	0.200	"	4.00		91.2	80-120			
1,3-Dichloropropane	3.42	0.200	"	4.00		85.5	80-120			
1,4-Dichlorobenzene	3.61	0.200	"	4.00		90.2	80-120			
2,2-Dichloropropane	4.21	0.500	"	4.00		105	80-120			
2-Butanone	35.5	2.00	"	40.0		88.8	80-120			
2-Chlorotoluene	3.69	0.500	"	4.00		92.2	80-120			
2-Hexanone	37.0	2.00	"	40.0		92.5	80-120			
4-Chlorotoluene	3.65	0.500	"	4.00		91.2	80-120			
4-Methyl-2-pentanone	39.0	2.00	"	40.0		97.5	80-120			
Acetone	34.6	10.0	"	40.0		86.5	80-120			
Benzene	3.79	0.200	"	4.00		94.8	80-120			
Bromobenzene	3.70	0.500	"	4.00		92.5	80-120			
Bromochloromethane	3.61	0.200	"	4.00		90.2	80-120			

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

LCS (5E12071-BS1)

Bromodichloromethane	4.08	0.200	ug/l	4.00		102	80-120			
Bromoform	3.78	0.200	"	4.00		94.5	80-120			
Bromomethane	3.64	2.00	"	4.00		91.0	80-120			
Carbon disulfide	3.84	0.500	"	4.00		96.0	80-120			
Carbon tetrachloride	4.25	0.200	"	4.00		106	80-120			
Chlorobenzene	3.66	0.200	"	4.00		91.5	80-120			
Chloroethane	4.07	1.00	"	4.00		102	80-120			
Chloroform	3.81	0.200	"	4.00		95.2	80-120			
Chloromethane	3.92	1.00	"	4.00		98.0	80-120			
cis-1,2-Dichloroethene	3.71	0.200	"	4.00		92.8	80-120			
cis-1,3-Dichloropropene	3.92	0.200	"	4.00		98.0	80-120			
Dibromochloromethane	3.90	0.200	"	4.00		97.5	80-120			
Dibromomethane	3.66	0.200	"	4.00		91.5	80-120			
Dichlorodifluoromethane	4.15	0.500	"	4.00		104	80-120			
Ethylbenzene	3.81	0.200	"	4.00		95.2	80-120			
Hexachlorobutadiene	3.92	0.500	"	4.00		98.0	80-120			
Isopropylbenzene	3.88	0.500	"	4.00		97.0	80-120			
m,p-Xylene	7.58	0.500	"	8.00		94.8	80-120			
Methyl tert-butyl ether	3.68	1.00	"	4.00		92.0	80-120			
Methylene chloride	3.78	2.00	"	4.00		94.5	80-120			
n-Butylbenzene	3.77	0.200	"	4.00		94.2	80-120			
n-Propylbenzene	3.84	0.500	"	4.00		96.0	80-120			
Naphthalene	2.97	0.500	"	4.00		74.2	80-120			X
o-Xylene	3.82	0.250	"	4.00		95.5	80-120			
p-Isopropyltoluene	3.92	0.200	"	4.00		98.0	80-120			
sec-Butylbenzene	3.91	0.200	"	4.00		97.8	80-120			
Styrene	3.82	0.500	"	4.00		95.5	80-120			
tert-Butylbenzene	3.86	0.500	"	4.00		96.5	80-120			
Tetrachloroethene	3.80	0.200	"	4.00		95.0	80-120			
Toluene	3.68	0.200	"	4.00		92.0	80-120			
trans-1,2-Dichloroethene	3.92	0.200	"	4.00		98.0	80-120			
trans-1,3-Dichloropropene	3.84	0.200	"	4.00		96.0	80-120			
Trichloroethene	3.89	0.200	"	4.00		97.2	80-120			
Trichlorofluoromethane	4.55	0.500	"	4.00		114	80-120			

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

LCS (5E12071-BS1)

Vinyl chloride	4.08	0.200	ug/l	4.00		102	80-120			
Surrogate: 1,2-DCA-d4	4.29		"	4.00		107	70-130			
Surrogate: Toluene-d8	3.95		"	4.00		98.8	70-130			
Surrogate: 4-BFB	4.02		"	4.00		100	70-130			

LCS Dup (5E12071-BS1)

1,1,1,2-Tetrachloroethane	4.11	0.200	ug/l	4.00		103	80-120	4.48	30	
1,1,1-Trichloroethane	4.23	0.200	"	4.00		106	80-120	3.12	30	
1,1,2,2-Tetrachloroethane	3.74	0.500	"	4.00		93.5	80-120	3.81	30	
1,1,2-Trichloroethane	3.77	0.200	"	4.00		94.2	80-120	5.45	30	
1,1-Dichloroethane	3.92	0.200	"	4.00		98.0	80-120	6.32	30	
1,1-Dichloroethene	4.16	0.200	"	4.00		104	80-120	4.42	30	
1,1-Dichloropropene	4.19	0.200	"	4.00		105	80-120	5.39	30	
1,2,3-Trichlorobenzene	3.71	0.200	"	4.00		92.8	80-120	8.72	30	
1,2,3-Trichloropropane	3.81	0.500	"	4.00		95.2	80-120	5.39	30	
1,2,4-Trichlorobenzene	3.87	0.200	"	4.00		96.8	80-120	9.19	30	
1,2,4-Trimethylbenzene	4.12	0.200	"	4.00		103	80-120	7.04	30	
1,2-Dibromo-3-chloropropane	3.81	0.500	"	4.00		95.2	80-120	6.50	30	
1,2-Dibromoethane	3.86	0.200	"	4.00		96.5	80-120	2.89	30	
1,2-Dichlorobenzene	3.88	0.200	"	4.00		97.0	80-120	4.48	30	
1,2-Dichloroethane	4.19	0.200	"	4.00		105	80-120	7.68	30	
1,2-Dichloropropane	3.85	0.200	"	4.00		96.2	80-120	1.57	30	
1,3,5-Trimethylbenzene	4.13	0.500	"	4.00		103	80-120	6.50	30	
1,3-Dichlorobenzene	3.83	0.200	"	4.00		95.8	80-120	4.81	30	
1,3-Dichloropropane	3.86	0.200	"	4.00		96.5	80-120	12.1	30	
1,4-Dichlorobenzene	3.78	0.200	"	4.00		94.5	80-120	4.60	30	
2,2-Dichloropropane	4.34	0.500	"	4.00		108	80-120	3.04	30	
2-Butanone	33.7	2.00	"	40.0		84.2	80-120	5.20	30	
2-Chlorotoluene	3.78	0.500	"	4.00		94.5	80-120	2.41	30	
2-Hexanone	36.5	2.00	"	40.0		91.2	80-120	1.36	30	
4-Chlorotoluene	4.19	0.500	"	4.00		105	80-120	13.8	30	
4-Methyl-2-pentanone	36.6	2.00	"	40.0		91.5	80-120	6.35	30	
Acetone	32.9	10.0	"	40.0		82.2	80-120	5.04	30	
Benzene	3.83	0.200	"	4.00		95.8	80-120	1.05	30	

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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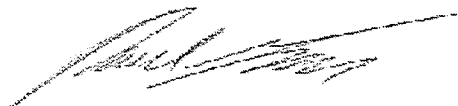
Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

LCS Dup (5E12071-BSD1)

Bromobenzene	3.94	0.500	ug/l	4.00		98.5	80-120	6.28	30	
Bromochloromethane	3.87	0.200	"	4.00		96.8	80-120	6.95	30	
Bromodichloromethane	4.09	0.200	"	4.00		102	80-120	0.245	30	
Bromoform	4.00	0.200	"	4.00		100	80-120	5.66	30	
Bromomethane	3.93	2.00	"	4.00		98.2	80-120	7.66	30	
Carbon disulfide	4.00	0.500	"	4.00		100	80-120	4.08	30	
Carbon tetrachloride	4.33	0.200	"	4.00		108	80-120	1.86	30	
Chlorobenzene	3.92	0.200	"	4.00		98.0	80-120	6.86	30	
Chloroethane	4.33	1.00	"	4.00		108	80-120	6.19	30	
Chloroform	3.97	0.200	"	4.00		99.2	80-120	4.11	30	
Chloromethane	3.84	1.00	"	4.00		96.0	80-120	2.06	30	
cis-1,2-Dichloroethene	3.98	0.200	"	4.00		99.5	80-120	7.02	30	
cis-1,3-Dichloropropene	4.06	0.200	"	4.00		102	80-120	3.51	30	
Dibromochloromethane	4.10	0.200	"	4.00		102	80-120	5.00	30	
Dibromomethane	3.77	0.200	"	4.00		94.2	80-120	2.96	30	
Dichlorodifluoromethane	4.32	0.500	"	4.00		108	80-120	4.01	30	
Ethylbenzene	4.07	0.200	"	4.00		102	80-120	6.60	30	
Hexachlorobutadiene	4.20	0.500	"	4.00		105	80-120	6.90	30	
Isopropylbenzene	4.15	0.500	"	4.00		104	80-120	6.72	30	
m,p-Xylene	8.27	0.500	"	8.00		103	80-120	8.71	30	
Methyl tert-butyl ether	3.87	1.00	"	4.00		96.8	80-120	5.03	30	
Methylene chloride	3.99	2.00	"	4.00		99.8	80-120	5.41	30	
n-Butylbenzene	4.15	0.200	"	4.00		104	80-120	9.60	30	
n-Propylbenzene	4.09	0.500	"	4.00		102	80-120	6.31	30	
Naphthalene	3.57	0.500	"	4.00		89.2	80-120	18.3	30	
o-Xylene	4.10	0.250	"	4.00		102	80-120	7.07	30	
p-Isopropyltoluene	4.24	0.200	"	4.00		106	80-120	7.84	30	
sec-Butylbenzene	4.18	0.200	"	4.00		104	80-120	6.67	30	
Styrene	4.08	0.500	"	4.00		102	80-120	6.58	30	
tert-Butylbenzene	4.25	0.500	"	4.00		106	80-120	9.62	30	
Tetrachloroethene	4.22	0.200	"	4.00		106	80-120	10.5	30	
Toluene	3.93	0.200	"	4.00		98.2	80-120	6.57	30	
trans-1,2-Dichloroethene	4.05	0.200	"	4.00		101	80-120	3.26	30	
trans-1,3-Dichloropropene	4.16	0.200	"	4.00		104	80-120	8.00	30	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

LCS Dup (5E12071-BSD1)

Trichloroethene	4.00	0.200	ug/l	4.00		100	80-120	2.79	30	
Trichlorofluoromethane	4.58	0.500	"	4.00		114	80-120	0.657	30	
Vinyl chloride	4.27	0.200	"	4.00		107	80-120	4.55	30	
Surrogate: 1,2-DCA-d4	4.22		"	4.00		106	70-130			
Surrogate: Toluene-d8	3.99		"	4.00		99.8	70-130			
Surrogate: 4-BFB	4.04		"	4.00		101	70-130			

Matrix Spike (5E12071-MS1)

Source: B5E0309-05

1,1,1,2-Tetrachloroethane	4.91	0.200	ug/l	4.00	ND	123	70-130			
1,1,1-Trichloroethane	4.76	0.200	"	4.00	ND	119	70-130			
1,1,2,2-Tetrachloroethane	4.72	0.500	"	4.00	ND	118	70-130			
1,1,2-Trichloroethane	4.86	0.200	"	4.00	ND	122	70-130			
1,1-Dichloroethane	4.55	0.200	"	4.00	ND	114	70-130			
1,1-Dichloroethene	4.80	0.200	"	4.00	ND	120	59-158			
1,1-Dichloropropene	4.92	0.200	"	4.00	ND	123	70-130			
1,2,3-Trichlorobenzene	4.42	0.200	"	4.00	ND	110	70-130			
1,2,3-Trichloropropane	4.59	0.500	"	4.00	ND	115	70-130			
1,2,4-Trichlorobenzene	4.41	0.200	"	4.00	ND	110	70-130			
1,2,4-Trimethylbenzene	4.52	0.200	"	4.00	ND	113	70-130			
1,2-Dibromo-3-chloropropane	4.72	0.500	"	4.00	ND	118	70-130			
1,2-Dibromoethane	4.89	0.200	"	4.00	ND	122	70-130			
1,2-Dichlorobenzene	4.60	0.200	"	4.00	ND	115	70-130			
1,2-Dichloroethane	4.90	0.200	"	4.00	ND	122	70-130			
1,2-Dichloropropane	4.80	0.200	"	4.00	ND	120	70-130			
1,3,5-Trimethylbenzene	4.61	0.500	"	4.00	ND	115	70-130			
1,3-Dichlorobenzene	4.31	0.200	"	4.00	ND	108	70-130			
1,3-Dichloropropane	4.85	0.200	"	4.00	ND	121	70-130			
1,4-Dichlorobenzene	4.40	0.200	"	4.00	ND	110	70-130			
2,2-Dichloropropane	4.23	0.500	"	4.00	ND	106	70-130			
2-Butanone	42.2	2.00	"	40.0	ND	106	70-130			
2-Chlorotoluene	3.81	0.500	"	4.00	ND	95.2	70-130			
2-Hexanone	44.6	2.00	"	40.0	ND	112	70-130			
4-Chlorotoluene	5.32	0.500	"	4.00	ND	133	70-130			Q-02
4-Methyl-2-pentanone	45.3	2.00	"	40.0	ND	113	70-130			

North Creek Analytical - Bothell

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Robert Greer For Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 36 of 41



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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Matrix Spike (5E12071-MS1)

Source: B5E0309-05

Acetone	40.3	10.0	ug/l	40.0	ND	101	70-130			
Benzene	4.76	0.200	"	4.00	ND	119	63-148			
Bromobenzene	4.53	0.500	"	4.00	ND	113	70-130			
Bromochloromethane	4.71	0.200	"	4.00	ND	118	70-130			
Bromodichloromethane	4.89	0.200	"	4.00	ND	122	70-130			
Bromoform	5.03	0.200	"	4.00	ND	126	70-130			
Bromomethane	1.82	2.00	"	4.00	ND	45.5	70-130			Q-02
Carbon disulfide	6.57	0.500	"	4.00	ND	164	70-130			Q-02
Carbon tetrachloride	4.82	0.200	"	4.00	ND	120	70-130			
Chlorobenzene	4.64	0.200	"	4.00	ND	116	80-128			
Chloroethane	5.27	1.00	"	4.00	ND	132	70-130			Q-02
Chloroform	4.65	0.200	"	4.00	ND	116	70-130			
Chloromethane	4.51	1.00	"	4.00	ND	113	70-130			
cis-1,2-Dichloroethene	4.82	0.200	"	4.00	ND	120	70-130			
cis-1,3-Dichloropropene	5.07	0.200	"	4.00	ND	127	70-130			
Dibromochloromethane	5.05	0.200	"	4.00	ND	126	70-130			
Dibromomethane	4.63	0.200	"	4.00	ND	116	70-130			
Dichlorodifluoromethane	4.60	0.500	"	4.00	ND	115	70-130			
Ethylbenzene	4.74	0.200	"	4.00	ND	118	70-130			
Hexachlorobutadiene	4.22	0.500	"	4.00	ND	106	70-130			
Isopropylbenzene	5.06	0.500	"	4.00	ND	126	70-130			
m,p-Xylene	9.70	0.500	"	8.00	ND	121	70-130			
Methyl tert-butyl ether	4.81	1.00	"	4.00	ND	120	70-130			
Methylene chloride	4.73	2.00	"	4.00	ND	118	70-130			
n-Butylbenzene	4.54	0.200	"	4.00	ND	114	70-130			
n-Propylbenzene	4.57	0.500	"	4.00	ND	114	70-130			
Naphthalene	4.68	0.500	"	4.00	ND	117	70-130			
o-Xylene	5.01	0.250	"	4.00	ND	125	70-130			
p-Isopropyltoluene	4.70	0.200	"	4.00	ND	118	70-130			
sec-Butylbenzene	4.66	0.200	"	4.00	ND	116	70-130			
Styrene	4.97	0.500	"	4.00	ND	124	70-130			
tert-Butylbenzene	4.56	0.500	"	4.00	ND	114	70-130			
Tetrachloroethene	4.78	0.200	"	4.00	ND	120	70-130			
Toluene	4.74	0.200	"	4.00	ND	118	72-127			

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Matrix Spike (5E12071-MS1)

Source: B5E0309-05

trans-1,2-Dichloroethane	4.79	0.200	ug/l	4.00	ND	120	70-130			
trans-1,3-Dichloropropene	4.93	0.200	"	4.00	ND	123	70-130			
Trichloroethene	4.72	0.200	"	4.00	ND	118	80-126			
Trichlorofluoromethane	6.53	0.500	"	4.00	ND	163	70-130			Q-02
Vinyl chloride	4.81	0.200	"	4.00	ND	120	70-130			
Surrogate: 1,2-DCA-d4	4.18		"	4.00		104	70-130			
Surrogate: Toluene-d8	4.18		"	4.00		104	70-130			
Surrogate: 4-BFB	3.77		"	4.00		94.2	70-130			

Matrix Spike Dup (5E12071-MSD1)


Source: B5E0309-05

A-01

1,1,1,2-Tetrachloroethane	3.97	0.200	ug/l	4.00	ND	99.2	70-130	21.2	30	
1,1,1-Trichloroethane	4.24	0.200	"	4.00	ND	106	70-130	11.6	30	
1,1,1,2,2-Tetrachloroethane	4.13	0.500	"	4.00	ND	103	70-130	13.3	30	
1,1,2-Trichloroethane	3.93	0.200	"	4.00	ND	98.2	70-130	21.2	30	
1,1-Dichloroethane	4.06	0.200	"	4.00	ND	102	70-130	11.4	30	
1,1-Dichloroethene	4.24	0.200	"	4.00	ND	106	59-158	12.4	30	
1,1-Dichloropropene	4.29	0.200	"	4.00	ND	107	70-130	13.7	30	
1,2,3-Trichlorobenzene	3.81	0.200	"	4.00	ND	95.2	70-130	14.8	30	
1,2,3-Trichloropropane	4.03	0.500	"	4.00	ND	101	70-130	13.0	30	
1,2,4-Trichlorobenzene	3.91	0.200	"	4.00	ND	97.8	70-130	12.0	30	
1,2,4-Trimethylbenzene	4.01	0.200	"	4.00	ND	100	70-130	12.0	30	
1,2-Dibromo-3-chloropropane	4.04	0.500	"	4.00	ND	101	70-130	15.5	30	
1,2-Dibromoethane	3.95	0.200	"	4.00	ND	98.8	70-130	21.3	30	
1,2-Dichlorobenzene	3.97	0.200	"	4.00	ND	99.2	70-130	14.7	30	
1,2-Dichloroethane	4.14	0.200	"	4.00	ND	104	70-130	16.8	30	
1,2-Dichloropropane	4.10	0.200	"	4.00	ND	102	70-130	15.7	30	
1,3,5-Trimethylbenzene	4.08	0.500	"	4.00	ND	102	70-130	12.2	30	
1,3-Dichlorobenzene	3.91	0.200	"	4.00	ND	97.8	70-130	9.73	30	
1,3-Dichloropropane	3.96	0.200	"	4.00	ND	99.0	70-130	20.2	30	
1,4-Dichlorobenzene	3.81	0.200	"	4.00	ND	95.2	70-130	14.4	30	
2,2-Dichloropropane	3.68	0.500	"	4.00	ND	92.0	70-130	13.9	30	
2-Butanone	43.9	2.00	"	40.0	ND	110	70-130	3.95	30	
2-Chlorotoluene	3.99	0.500	"	4.00	ND	99.8	70-130	4.62	30	
2-Hexanone	40.4	2.00	"	40.0	ND	101	70-130	9.88	30	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell


Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Matrix Spike Dup (5E12071-MSD1)				Source: B5E0309-05						A-01
4-Chlorotoluene	3.82	0.500	ug/l	4.00	ND	95.5	70-130	32.8	30	Q-07
4-Methyl-2-pentanone	42.6	2.00	"	40.0	ND	106	70-130	6.14	30	
Acetone	40.0	10.0	"	40.0	ND	100	70-130	0.747	30	
Benzene	4.15	0.200	"	4.00	ND	104	63-148	13.7	20	
Bromobenzene	4.04	0.500	"	4.00	ND	101	70-130	11.4	30	
Bromochloromethane	4.22	0.200	"	4.00	ND	106	70-130	11.0	30	
Bromodichloromethane	4.18	0.200	"	4.00	ND	104	70-130	15.7	30	
Bromoform	3.86	0.200	"	4.00	ND	96.5	70-130	26.3	30	
Bromomethane	2.24	2.00	"	4.00	ND	56.0	70-130	20.7	30	Q-02
Carbon disulfide	5.02	0.500	"	4.00	ND	126	70-130	26.7	30	
Carbon tetrachloride	4.12	0.200	"	4.00	ND	103	70-130	15.7	30	
Chlorobenzene	3.87	0.200	"	4.00	ND	96.8	80-128	18.1	20	
Chloroethane	4.32	1.00	"	4.00	ND	108	70-130	19.8	30	
Chloroform	4.05	0.200	"	4.00	ND	101	70-130	13.8	30	
Chloromethane	3.99	1.00	"	4.00	ND	99.8	70-130	12.2	30	
cis-1,2-Dichloroethene	4.26	0.200	"	4.00	ND	106	70-130	12.3	30	
cis-1,3-Dichloropropene	4.23	0.200	"	4.00	ND	106	70-130	18.1	30	
Dibromochloromethane	4.13	0.200	"	4.00	ND	103	70-130	20.0	30	
Dibromomethane	4.00	0.200	"	4.00	ND	100	70-130	14.6	30	
Dichlorodifluoromethane	3.93	0.500	"	4.00	ND	98.2	70-130	15.7	30	
Ethylbenzene	3.97	0.200	"	4.00	ND	99.2	70-130	17.7	30	
Hexachlorobutadiene	3.83	0.500	"	4.00	ND	95.8	70-130	9.69	30	
Isopropylbenzene	4.04	0.500	"	4.00	ND	101	70-130	22.4	30	
m,p-Xylene	7.88	0.500	"	8.00	ND	98.5	70-130	20.7	30	
Methyl tert-butyl ether	4.18	1.00	"	4.00	ND	104	70-130	14.0	30	
Methylene chloride	4.25	2.00	"	4.00	ND	106	70-130	10.7	30	
n-Butylbenzene	3.96	0.200	"	4.00	ND	99.0	70-130	13.6	30	
n-Propylbenzene	4.03	0.500	"	4.00	ND	101	70-130	12.6	30	
Naphthalene	3.89	0.500	"	4.00	ND	97.2	70-130	18.4	30	
o-Xylene	3.99	0.250	"	4.00	ND	99.8	70-130	22.7	30	
p-Isopropyltoluene	4.09	0.200	"	4.00	ND	102	70-130	13.9	30	
sec-Butylbenzene	4.10	0.200	"	4.00	ND	102	70-130	12.8	30	
Styrene	4.09	0.500	"	4.00	ND	102	70-130	19.4	30	
tert-Butylbenzene	4.04	0.500	"	4.00	ND	101	70-130	12.1	30	

North Creek Analytical - Bothell

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 Robert Greer For Amar Gill, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002
 Project Manager: Douglas Morell

Reported:
 05/27/05 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E12071: Prepared 05/12/05 Using EPA 5030B

Matrix Spike Dup (5E12071-MSD1)				Source: B5E0309-05						A-01
Tetrachloroethene	3.98	0.200	ug/l	4.00	ND	99.5	70-130	18.3	30	
Toluene	3.86	0.200	"	4.00	ND	96.5	72-127	20.5	20	Q-07
trans-1,2-Dichloroethene	4.21	0.200	"	4.00	ND	105	70-130	12.9	30	
trans-1,3-Dichloropropene	3.98	0.200	"	4.00	ND	99.5	70-130	21.3	30	
Trichloroethene	4.09	0.200	"	4.00	ND	102	80-126	14.3	20	
Trichlorofluoromethane	4.82	0.500	"	4.00	ND	120	70-130	30.1	30	Q-07
Vinyl chloride	4.26	0.200	"	4.00	ND	106	70-130	12.1	30	
<i>Surrogate: 1,2-DCA-d4</i>	<i>4.09</i>		<i>"</i>	<i>4.00</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>3.88</i>		<i>"</i>	<i>4.00</i>		<i>97.0</i>	<i>70-130</i>			
<i>Surrogate: 4-BFB</i>	<i>3.92</i>		<i>"</i>	<i>4.00</i>		<i>98.0</i>	<i>70-130</i>			

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 Project Manager: Douglas Morell	Reported: 05/27/05 10:30
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Notes and Definitions

- A-01 MSD was run outside of 12hr QC window.
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- Q-29 This sample was prepared outside of the method established holding time.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSE 0309**

NCA CLIENT: <i>Culder Associates, Inc.</i>			INVOICE TO:										TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify: _____ <small>* Turnaround Request less than standard may incur Rush Charges.</small>				
REPORT TO: <i>Ryan Vannier / David Morrell</i>			P.O. NUMBER:														
ADDRESS: <i>18300 NE Unity Hill Road Ste 200 Redmond, WA 98052</i>			PRESERVATIVE														
PHONE: <i>(425) 888-0777</i> FAX: <i>(425) 888-5498</i>			REQUESTED ANALYSES														
PROJECT NAME: <i>Landsburg</i>			HCl H ₂ O ₂ HCl														
PROJECT NUMBER: <i>923-1000-002</i>			VOCs														
SAMPLED BY: <i>Ryan Vannier</i>			Metals														
			HCl														
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME												MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 <i>LMW6-051005</i>		<i>05/10/05 1140</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>01</i>
2 <i>LMW10-051005</i>		<i>05/10/05 1730</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>02</i>
3 <i>LMW11-051005</i>		<i>05/10/05 1300</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>03</i>
4 <i>FBLMW10-051005</i>		<i>05/10/05 1315</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>04</i>
5 <i>LMW2-051005</i>		<i>05/10/05 1430</i>		<i>X X X</i>										<i>W</i>	<i>10</i>	<i>Extra for MS/MSD</i>	<i>05</i>
6 <i>LMW4-051005</i>		<i>05/10/05 1550</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>06</i>
7 <i>LMW7-051005</i>		<i>05/10/05 1655</i>		<i>X X X</i>										<i>W</i>	<i>6</i>		<i>07</i>
8																	
9																	
10																	
RELEASED BY: <i>[Signature]</i>			DATE: <i>05/10/05</i>			RECEIVED BY: <i>[Signature]</i>			DATE: <i>5/11/05</i>								
PRINT NAME: <i>Ryan Vannier</i>			FIRM: <i>Culder</i>			TIME: <i>1925</i>			PRINT NAME: <i>Jon Hallers</i>			FIRM: <i>NCA</i>			TIME: <i>1315</i>		
RELEASED BY:			DATE:			RECEIVED BY:			DATE:								
PRINT NAME:			FIRM:			TIME:			PRINT NAME:			FIRM:			TIME:		
ADDITIONAL REMARKS: <i>All metals samples were held filtered</i>												TEMP: <i>w/o 4.3°</i>	PAGE 1 OF 1				



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

31 May 2005

Douglas Morell
Golder Associates Inc.
18300 NE Union Hill Rd, Suite 200
Redmond, WA/USA 98052-3333
RE: Landsburg Mine

Enclosed are the results of analyses for samples received by the laboratory on 05/12/05 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kortland Orr For Amar Gill
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LMW3-051105	B5E0368-01	Water	05/11/05 10:15	05/12/05 18:00
LMW5-051105	B5E0368-02	Water	05/11/05 11:05	05/12/05 18:00
LMW8-051105	B5E0368-03	Water	05/11/05 11:30	05/12/05 18:00
LMW9-051105	B5E0368-04	Water	05/11/05 13:35	05/12/05 18:00

North Creek Analytical - Bothell

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Kortland Orr For Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW3-051105 (B5E0368-01) Water Sampled: 05/11/05 10:15 Received: 05/12/05 18:00									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	77.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	92.2 %	50-150			"	"	"	"	
LMW5-051105 (B5E0368-02) Water Sampled: 05/11/05 11:05 Received: 05/12/05 18:00									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	78.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	91.1 %	50-150			"	"	"	"	
LMW8-051105 (B5E0368-03) Water Sampled: 05/11/05 11:30 Received: 05/12/05 18:00									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	79.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	92.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr For Amar Gill, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW9-051105 (B5E0368-04) Water Sampled: 05/11/05 13:35 Received: 05/12/05 18:00									
Gx Range Hydrocarbons	ND	0.250	mg/l	1	5E17005	05/18/05	05/20/05	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	0.630	"	"	"	"	"	"	
Surrogate: 2-FBP	76.0 %	50-150				"	"	"	
Surrogate: Octacosane	88.8 %	50-150				"	"	"	

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

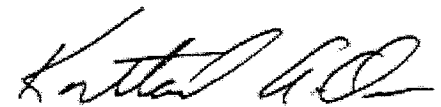
Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW3-051105 (B5E0368-01) Water Sampled: 05/11/05 10:15 Received: 05/12/05 18:00									
Silver	ND	0.00100	mg/l	1	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	05/26/05	"	
Cadmium	ND	0.00100	"	"	"	"	05/25/05	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	ND	0.150	"	"	5E24045	05/24/05	05/27/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E18041	05/18/05	05/18/05	EPA 7470A - Diss	
Manganese	0.0750	0.0100	"	"	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Nickel	0.00113	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/26/05	"	
Selenium	ND	0.00100	"	"	"	"	05/25/05	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW5-051105 (B5E0368-02) Water Sampled: 05/11/05 11:05 Received: 05/12/05 18:00									
Silver	ND	0.00100	mg/l	1	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	05/26/05	"	
Cadmium	ND	0.00100	"	"	"	"	05/25/05	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	0.280	0.150	"	"	5E24045	05/24/05	05/27/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E18041	05/18/05	05/18/05	EPA 7470A - Diss	
Manganese	0.225	0.0100	"	"	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/26/05	"	
Selenium	ND	0.00100	"	"	"	"	05/25/05	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Kortland Orr For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW8-051105 (B5E0368-03) Water Sampled: 05/11/05 11:30 Received: 05/12/05 18:00									
Silver	ND	0.00100	mg/l	1	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Arsenic	0.00161	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	05/26/05	"	
Cadmium	ND	0.00100	"	"	"	"	05/25/05	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	3.79	0.150	"	"	5E24045	05/24/05	05/27/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E18041	05/18/05	05/18/05	EPA 7470A - Diss	
Nickel	0.00221	0.00100	"	"	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/26/05	"	
Selenium	ND	0.00100	"	"	"	"	05/25/05	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

LMW8-051105 (B5E0368-03RE1) Water Sampled: 05/11/05 11:30 Received: 05/12/05 18:00									
Manganese	0.533	0.0200	mg/l	2	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	

LMW9-051105 (B5E0368-04) Water Sampled: 05/11/05 13:35 Received: 05/12/05 18:00									
Silver	ND	0.00100	mg/l	1	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Arsenic	ND	0.00100	"	"	"	"	"	"	
Beryllium	ND	0.00100	"	"	"	"	05/26/05	"	
Cadmium	ND	0.00100	"	"	"	"	05/25/05	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Copper	ND	0.00100	"	"	"	"	"	"	
Iron	1.64	0.150	"	"	5E24045	05/24/05	05/27/05	EPA 6010B - Diss	
Mercury	ND	0.000200	"	"	5E18041	05/18/05	05/18/05	EPA 7470A - Diss	
Manganese	0.172	0.0100	"	"	5E17056	05/17/05	05/25/05	EPA 6020 - Diss	
Nickel	ND	0.00100	"	"	"	"	"	"	
Lead	ND	0.00100	"	"	"	"	"	"	
Antimony	ND	0.00300	"	"	"	"	05/26/05	"	
Selenium	ND	0.00100	"	"	"	"	05/25/05	"	
Thallium	ND	0.00100	"	"	"	"	"	"	
Zinc	ND	0.0100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Kortland Orr For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW3-051105 (B5E0368-01) Water Sampled: 05/11/05 10:15 Received: 05/12/05 18:00									
Acetone	ND	10.0	ug/l	1	5E18079	05/17/05	05/18/05	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	
Chlorobenzene	ND	0.200	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr For Amar Gill, Project Manager

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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

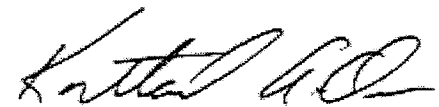
Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW3-051105 (B5E0368-01) Water Sampled: 05/11/05 10:15 Received: 05/12/05 18:00									
1,1-Dichloropropene	ND	0.200	ug/l	1	5E18079	05/17/05	05/18/05	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Kortland Orr For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
LMW5-051105 (B5E0368-02) Water Sampled: 05/11/05 11:05 Received: 05/12/05 18:00										
Acetone	ND	10.0		ug/l	1	5E18079	05/17/05	05/18/05	EPA 8260B	
Benzene	ND	0.200		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	ND	0.200		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200		"	"	"	"	"	"	
Chlorobenzene	ND	0.200		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kortland Orr For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

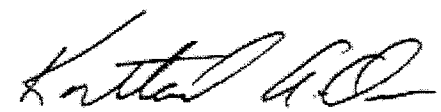
Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LMW5-051105 (B5E0368-02) Water Sampled: 05/11/05 11:05 Received: 05/12/05 18:00									
1,1-Dichloropropene	ND	0.200	ug/l	1	5E18079	05/17/05	05/18/05	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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 Kortland Orr For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

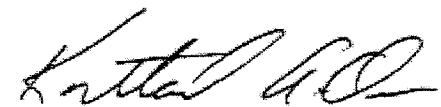
Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW8-051105 (B5E0368-03) Water Sampled: 05/11/05 11:30 Received: 05/12/05 18:00									
Acetone	ND	10.0	ug/l	1	5E18079	05/17/05	05/18/05	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	
Chlorobenzene	ND	0.200	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Kortland Orr For Amar Gill, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
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 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

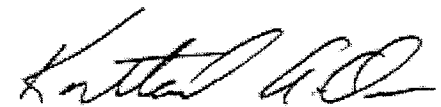
Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW8-051105 (B5E0368-03) Water Sampled: 05/11/05 11:30 Received: 05/12/05 18:00									
1,1-Dichloropropene	ND	0.200	ug/l	1	5E18079	05/17/05	05/18/05	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-BFB	103 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW9-051105 (B5E0368-04) Water Sampled: 05/11/05 13:35 Received: 05/12/05 18:00									
Acetone	ND	10.0	ug/l	1	5E18079	05/17/05	05/18/05	EPA 8260B	
Benzene	ND	0.200	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.200	"	"	"	"	"	"	
Bromoform	ND	0.200	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	2.00	"	"	"	"	"	"	
n-Butylbenzene	ND	0.200	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.200	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon disulfide	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200	"	"	"	"	"	"	
Chlorobenzene	ND	0.200	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.200	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.200	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

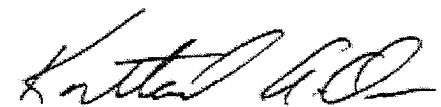
Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
LMW9-051105 (B5E0368-04) Water Sampled: 05/11/05 13:35 Received: 05/12/05 18:00									
1,1-Dichloropropene	ND	0.200	ug/l	1	5E18079	05/17/05	05/18/05	"	
cis-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.200	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
n-Hexane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	2.00	"	"	"	"	"	"	
Naphthalene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.200	"	"	"	"	"	"	
Toluene	ND	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200	"	"	"	"	"	"	
Trichloroethene	ND	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	101 %	70-130			"	"	"	"	

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17005: Prepared 05/17/05 Using EPA 3520C

Blank (5E17005-BLK1)

Gx Range Hydrocarbons	ND	0.250	mg/l							
Kerosene Range Hydrocarbons	ND	0.630	"							
Diesel Range Hydrocarbons	ND	0.630	"							
Insulating Oil Range Hydrocarbons	ND	0.630	"							
Heavy Fuel Oil Range Hydrocarbons	ND	0.630	"							
Lube Oil Range Hydrocarbons	ND	0.630	"							
Surrogate: 2-FBP	DET		"	0.250		80.0	50-150			
Surrogate: Octacosane	DET		"	0.250		93.6	50-150			

LCS (5E17005-BS1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	2.00		66.5	50-150			
Surrogate: 2-FBP	DET		"	0.250		67.6	50-150			

LCS Dup (5E17005-BSD1)

Diesel Range Hydrocarbons	DET	0.630	mg/l	2.00		73.5	50-150	10.0	40	
Surrogate: 2-FBP	DET		"	0.250		80.0	50-150			

Duplicate (5E17005-DUP1)

Source: B5E0309-01

Gx Range Hydrocarbons	0.0932	0.250	mg/l		0.106			12.9	50	
Kerosene Range Hydrocarbons	0.0741	0.630	"		0.0809			8.77	50	
Diesel Range Hydrocarbons	0.0490	0.630	"		0.0504			2.82	50	
Insulating Oil Range Hydrocarbons	0.0818	0.630	"		0.0855			4.42	50	
Heavy Fuel Oil Range Hydrocarbons	0.126	0.630	"		0.129			2.35	50	
Lube Oil Range Hydrocarbons	0.0517	0.630	"		0.0527			1.92	50	
Surrogate: 2-FBP	DET		"	0.245		75.5	50-150			
Surrogate: Octacosane	DET		"	0.245		91.8	50-150			

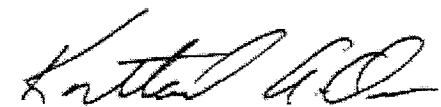
Matrix Spike (5E17005-MS1)

Source: B5E0309-05

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.98	0.0585	70.8	25-149			
Surrogate: 2-FBP	DET		"	0.248		78.2	50-150			

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17005: Prepared 05/17/05 Using EPA 3520C

Matrix Spike Dup (5E17005-MSD1)

Source: B5E0309-05

Diesel Range Hydrocarbons	DET	0.630	mg/l	1.98	0.0585	64.2	25-149	9.32	40	
Surrogate: 2-FBP	DET		"	0.248		70.6	50-150			

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17056: Prepared 05/17/05 Using EPA 3005A

Blank (5E17056-BLK1)

Silver	ND	0.00100	mg/l							
Arsenic	ND	0.00100	"							
Beryllium	ND	0.00100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Copper	ND	0.00100	"							
Manganese	ND	0.0100	"							
Nickel	ND	0.00100	"							
Lead	ND	0.00100	"							
Antimony	ND	0.00300	"							
Selenium	ND	0.00100	"							
Thallium	ND	0.00100	"							
Zinc	ND	0.0100	"							

LCS (5E17056-BS1)

Silver	0.221	0.00100	mg/l	0.200		110	80-120			
Arsenic	0.223	0.00100	"	0.200		112	80-120			
Beryllium	0.211	0.00100	"	0.200		106	80-120			
Cadmium	0.221	0.00100	"	0.200		110	80-120			
Chromium	0.224	0.00100	"	0.200		112	80-120			
Copper	0.222	0.00100	"	0.200		111	80-120			
Manganese	0.223	0.0100	"	0.200		112	80-120			
Nickel	0.222	0.00100	"	0.200		111	80-120			
Lead	0.222	0.00100	"	0.200		111	80-120			
Antimony	0.0570	0.00300	"	0.0500		114	80-120			
Selenium	0.222	0.00100	"	0.200		111	80-120			
Thallium	0.221	0.00100	"	0.200		110	80-120			
Zinc	0.222	0.0100	"	0.200		111	80-120			

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17056: Prepared 05/17/05 Using EPA 3005A

LCS Dup (5E17056-BSD1)

Silver	0.221	0.00100	mg/l	0.200		110	80-120	0.00	20	
Arsenic	0.222	0.00100	"	0.200		111	80-120	0.449	20	
Beryllium	0.207	0.00100	"	0.200		104	80-120	1.91	20	
Cadmium	0.222	0.00100	"	0.200		111	80-120	0.451	20	
Chromium	0.222	0.00100	"	0.200		111	80-120	0.897	20	
Copper	0.221	0.00100	"	0.200		110	80-120	0.451	20	
Manganese	0.221	0.0100	"	0.200		110	80-120	0.901	20	
Nickel	0.221	0.00100	"	0.200		110	80-120	0.451	20	
Lead	0.222	0.00100	"	0.200		111	80-120	0.00	20	
Antimony	0.0568	0.00300	"	0.0500		114	80-120	0.351	20	
Selenium	0.222	0.00100	"	0.200		111	80-120	0.00	20	
Thallium	0.221	0.00100	"	0.200		110	80-120	0.00	20	
Zinc	0.221	0.0100	"	0.200		110	80-120	0.451	20	

Matrix Spike (5E17056-MS1)

Source: B5E0368-01

Silver	0.0917	0.00100	mg/l	0.100	ND	91.7	43-124			
Arsenic	0.108	0.00100	"	0.100	0.000710	107	70-138			
Beryllium	0.0918	0.00100	"	0.100	ND	91.8	80-125			
Cadmium	0.0983	0.00100	"	0.100	ND	98.3	80-125			
Chromium	0.0982	0.00100	"	0.100	ND	98.2	76-125			
Copper	0.0956	0.00100	"	0.101	0.000740	93.9	71-125			
Manganese	0.171	0.0100	"	0.100	0.0750	96.0	54-158			
Nickel	0.0954	0.00100	"	0.0995	0.00113	94.7	73-125			
Lead	0.0962	0.00100	"	0.0995	ND	96.7	78-125			
Antimony	0.0326	0.00300	"	0.0500	0.00175	61.7	63-126			Q-01
Selenium	0.104	0.00100	"	0.100	ND	104	61-156			
Thallium	0.0975	0.00100	"	0.100	ND	97.5	78-125			
Zinc	0.105	0.0100	"	0.0995	0.00298	103	70-127			

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
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 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E17056: Prepared 05/17/05 Using EPA 3005A

Matrix Spike Dup (5E17056-MSD1)

Source: B5E0368-01

Silver	0.0927	0.00100	mg/l	0.100	ND	92.7	43-124	1.08	50	
Arsenic	0.108	0.00100	"	0.100	0.000710	107	70-138	0.00	20	
Beryllium	0.0934	0.00100	"	0.100	ND	93.4	80-125	1.73	20	
Cadmium	0.100	0.00100	"	0.100	ND	100	80-125	1.71	20	
Chromium	0.0986	0.00100	"	0.100	ND	98.6	76-125	0.407	20	
Copper	0.0960	0.00100	"	0.101	0.000740	94.3	71-125	0.418	20	
Manganese	0.170	0.0100	"	0.100	0.0750	95.0	54-158	0.587	20	
Nickel	0.0951	0.00100	"	0.0995	0.00113	94.4	73-125	0.315	20	
Lead	0.0953	0.00100	"	0.0995	ND	95.8	78-125	0.940	20	
Antimony	0.0353	0.00300	"	0.0500	0.00175	67.1	63-126	7.95	20	
Selenium	0.106	0.00100	"	0.100	ND	106	61-156	1.90	20	
Thallium	0.0968	0.00100	"	0.100	ND	96.8	78-125	0.721	20	
Zinc	0.106	0.0100	"	0.0995	0.00298	104	70-127	0.948	20	

Batch 5E18041: Prepared 05/18/05 Using EPA 7470A

Blank (5E18041-BLK1)

Mercury	ND	0.000200	mg/l							
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LCS (5E18041-BS1)

Mercury	0.00475	0.000200	mg/l	0.00500		95.0	80-120			
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LCS Dup (5E18041-BSD1)

Mercury	0.00500	0.000200	mg/l	0.00500		100	80-120	5.13	20	
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Duplicate (5E18041-DUP1)

Source: B5E0368-01

Mercury	0.0000751	0.000200	mg/l		0.000152			67.7	20	Q-06
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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18041: Prepared 05/18/05 Using EPA 7470A

Matrix Spike (5E18041-MS1)				Source: B5E0368-01						
Mercury	0.00497	0.000200	mg/l	0.00500	0.000152	96.4	70-130			
Matrix Spike Dup (5E18041-MSD1)				Source: B5E0368-01						
Mercury	0.00508	0.000200	mg/l	0.00500	0.000152	98.6	70-130	2.19	20	

Batch 5E24045: Prepared 05/24/05 Using EPA 3005A

Blank (5E24045-BLK1)										
Iron	ND	0.150	mg/l							
LCS (5E24045-BS1)										
Iron	4.77	0.150	mg/l	5.00		95.4	80-120			
LCS Dup (5E24045-BSD1)										
Iron	4.70	0.150	mg/l	5.00		94.0	80-120	1.48	20	
Matrix Spike (5E24045-MS1)				Source: B5E0368-01						
Iron	4.91	0.150	mg/l	5.00	ND	98.2	80-120			
Matrix Spike Dup (5E24045-MSD1)				Source: B5E0368-01						
Iron	4.87	0.150	mg/l	5.00	ND	97.4	80-120	0.818	20	

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 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18079: Prepared 05/17/05 Using EPA 5030B

Blank (5E18079-BLK1)

Acetone	ND	10.0	ug/l
Benzene	ND	0.200	"
Bromobenzene	ND	0.500	"
Bromochloromethane	ND	0.200	"
Bromodichloromethane	ND	0.200	"
Bromoform	ND	0.200	"
Bromomethane	ND	2.00	"
2-Butanone	ND	2.00	"
n-Butylbenzene	ND	0.200	"
sec-Butylbenzene	ND	0.200	"
tert-Butylbenzene	ND	0.500	"
Carbon disulfide	ND	0.500	"
Carbon tetrachloride	ND	0.200	"
Chlorobenzene	ND	0.200	"
Chloroethane	ND	1.00	"
Chloroform	ND	0.200	"
Chloromethane	ND	1.00	"
2-Chlorotoluene	ND	0.500	"
4-Chlorotoluene	ND	0.500	"
Dibromochloromethane	ND	0.200	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.200	"
Dibromomethane	ND	0.200	"
1,2-Dichlorobenzene	ND	0.200	"
1,3-Dichlorobenzene	ND	0.200	"
1,4-Dichlorobenzene	ND	0.200	"
Dichlorodifluoromethane	ND	0.500	"
1,1-Dichloroethane	ND	0.200	"
1,2-Dichloroethane	ND	0.200	"
1,1-Dichloroethene	ND	0.200	"
cis-1,2-Dichloroethene	ND	0.200	"
trans-1,2-Dichloroethene	ND	0.200	"
1,2-Dichloropropane	ND	0.200	"
1,3-Dichloropropane	ND	0.200	"

North Creek Analytical - Bothell

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Kortland Orr For Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Golder Associates Inc.
 18300 NE Union Hill Rd, Suite 200
 Redmond, WA/USA 98052-3333

Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18079: Prepared 05/17/05 Using EPA 5030B

Blank (5E18079-BLK1)

2,2-Dichloropropane	ND	0.500	ug/l							
1,1-Dichloropropene	ND	0.200	"							
cis-1,3-Dichloropropene	ND	0.200	"							
trans-1,3-Dichloropropene	ND	0.200	"							
Ethylbenzene	ND	0.200	"							
Hexachlorobutadiene	ND	0.500	"							
Methyl tert-butyl ether	ND	1.00	"							
n-Hexane	ND	1.00	"							
2-Hexanone	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.200	"							
4-Methyl-2-pentanone	ND	2.00	"							
Methylene chloride	ND	2.00	"							
Naphthalene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
Styrene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.200	"							
1,2,4-Trichlorobenzene	ND	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.200	"							
Toluene	ND	0.200	"							
1,1,1-Trichloroethane	ND	0.200	"							
1,1,2-Trichloroethane	ND	0.200	"							
Trichloroethene	ND	0.200	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,3-Trichloropropane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	0.200	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
Vinyl chloride	ND	0.200	"							
o-Xylene	ND	0.250	"							
m,p-Xylene	ND	0.500	"							
Surrogate: 1,2-DCA-d4	17.9		"	20.0		89.5	70-130			

North Creek Analytical - Bothell

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Project: Landsburg Mine
 Project Number: 923-1000.002 R273
 Project Manager: Douglas Morell

Reported:
 05/31/05 18:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18079: Prepared 05/17/05 Using EPA 5030B

Blank (5E18079-BLK1)

Surrogate: Toluene-d8	20.4		ug/l	20.0		102	70-130			
Surrogate: 4-BFB	20.1		"	20.0		100	70-130			

LCS (5E18079-BS1)

Benzene	41.1	0.200	ug/l	40.0		103	80-120			
Chlorobenzene	41.4	0.200	"	40.0		104	77-120			
1,1-Dichloroethene	37.7	0.200	"	40.0		94.2	80-120			
Methyl tert-butyl ether	39.6	1.00	"	40.0		99.0	80-120			
Toluene	41.2	0.200	"	40.0		103	80-120			
Trichloroethene	38.4	0.200	"	40.0		96.0	80-120			

Surrogate: 1,2-DCA-d4	16.8		"	20.0		84.0	70-130			
Surrogate: Toluene-d8	20.3		"	20.0		102	70-130			
Surrogate: 4-BFB	20.5		"	20.0		102	70-130			

LCS Dup (5E18079-BSD1)

Benzene	39.2	0.200	ug/l	40.0		98.0	80-120	4.73	20	
Chlorobenzene	40.2	0.200	"	40.0		100	77-120	2.94	20	
1,1-Dichloroethene	37.2	0.200	"	40.0		93.0	80-120	1.34	20	
Methyl tert-butyl ether	39.2	1.00	"	40.0		98.0	80-120	1.02	20	
Toluene	40.2	0.200	"	40.0		100	80-120	2.46	20	
Trichloroethene	37.2	0.200	"	40.0		93.0	80-120	3.17	20	
Surrogate: 1,2-DCA-d4	16.7		"	20.0		83.5	70-130			
Surrogate: Toluene-d8	20.4		"	20.0		102	70-130			
Surrogate: 4-BFB	20.6		"	20.0		103	70-130			

North Creek Analytical - Bothell

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Golder Associates Inc. 18300 NE Union Hill Rd, Suite 200 Redmond, WA/USA 98052-3333	Project: Landsburg Mine Project Number: 923-1000.002 R273 Project Manager: Douglas Morell	Reported: 05/31/05 18:44
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Notes and Definitions

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B5E0368**

NCA CLIENT: <i>Goldor Associates Inc.</i>			INVOICE TO:				TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify: _____ <small>* Turnaround Request less than standard may incur Peak Charge.</small>					
REPORT TO: <i>Ryan Vannier / Douglas Merrill</i>			P.O. NUMBER: <i>923-1000-002 R273</i>									
ADDRESS: <i>12300 NE Union Hill Blvd. Bldg. 200 Edmonds, WA 98052</i>			PRESERVATIVE									
PHONE: <i>(425) 872-0777 FAX: (425) 862-5498</i>			REQUESTED ANALYSES									
PROJECT NAME: <i>Landsburg</i>			HCl HNO3 HCl									
PROJECT NUMBER:												
SAMPLED BY:												
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME	VOCS	Metals	HCs				MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 <i>LMW3-051105</i>		<i>05/11/05 1015</i>	X	X	X				<i>W</i>	<i>6</i>		<i>-01</i>
2 <i>LMW5-051105</i>		<i>05/11/05 1105</i>	X	X	X				<i>W</i>	<i>6</i>		<i>-02</i>
3 <i>LMW8-051105</i>		<i>05/11/05 1130</i>	X	X	X				<i>W</i>	<i>6</i>		<i>-03</i>
4 <i>LMW9-051105</i>		<i>05/11/05 1335</i>	X	X	X				<i>W</i>	<i>6</i>		<i>-04</i>
5												
6												
7												
8												
9												
10												
RELEASED BY: <i>[Signature]</i>			DATE: <i>05/11/05</i>				RECEIVED BY: <i>[Signature]</i>			DATE: <i>5/12/05</i>		
PRINT NAME: <i>Ryan Vannier</i> FIRM: <i>Goldor</i>			TIME: <i>1600</i>				PRINT NAME: <i>Jon Hollers</i> FIRM: <i>NCA</i>			TIME: <i>1800</i>		
RELEASED BY:			DATE:				RECEIVED BY:			DATE:		
PRINT NAME: FIRM:			TIME:				PRINT NAME: FIRM:			TIME:		
ADDITIONAL REMARKS: <i>All metals samples were field filtered</i>												
COC REV 09/04										TEMP: <i>10/10 2.7°C</i>		