

August 23, 2006

Halah Voges
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, Washington 98134-1162

RE: WEEKLY AIR AND NOISE MONITORING REPORT
JULY 24 - JULY 29, 2006
Levee Zone Interim Action
Skykomish, Washington

Ms. Voges,

This document represents the ninth report of weekly air and noise monitoring data for the BNSF Skykomish levee zone interim action for the town of Skykomish, Washington conducted by Argus Pacific, Inc. (Argus Pacific) during the week of July 24 through July 29, 2006. The purpose of this report is to summarize and interpret air and noise sampling data collected in the City of Skykomish during the levee zone interim action conducted by The RETEC Group (RETEC). Argus Pacific conducted the monitoring in accordance with the BNSF Skykomish Air and Noise Monitoring Plan issued by Argus Pacific on June 20, 2006.

WORK ACTIVITIES

Argus Pacific collected chemical and respirable dust samples and noise measurements on July 24 and July 27, 2006. RETEC technicians collected respirable dust samples and noise measurements on July 25, 26, 28, and 29 of that week.

During sampling, workers filled sand bags in the river, moved and hauled dirt from the levee to the railyard, and screened dirt at the railyard. A water truck wetted roadways and a street sweeper removed rocks from the roadway.

SAMPLING METHODOLOGY

All samples were collected in accordance with the methods specified in the BNSF Skykomish Air and Noise Monitoring Plan. Please refer to this Plan for specific details on sampling methodology.

On July 24, 2006, Argus Pacific collected air samples at the southeast exit from the railyard and on the west side of the bridge directly east of the excavation. Samples were analyzed for lead, arsenic, petroleum hydrocarbons (Naphthas), polynuclear aromatic hydrocarbons (PAHs), and diesel particulate. On July 27, 2006, Argus Pacific collected samples for lead, arsenic, and Naphthas in the same locations.

Argus Pacific also conducted respirable dust monitoring and community noise monitoring at both of the aforementioned locations. On days during the week that Argus Pacific was not on site (July 25, 26, 28, and 29), RETEC employees conducted respirable dust monitoring and community noise monitoring at the railyard and bridge. Argus Pacific and RETEC collected noise measurements using a Quest handheld sound level meter during construction and equipment operations from July 24 through 29, 2006.

Approximate air and noise sample locations are indicated on the attached Air and Noise Monitoring Sample Locations Plan.

SAMPLING RESULTS

A detectable concentration of PAHs was found in the sample collected at the bridge on July 24, 2006. None of the other target compounds were identified at or above the laboratory limit of detection at either of the two sampling locations. Respirable dust concentrations and community noise levels were below project action limits during sampling for the entire week. Laboratory results, and dust and noise monitoring data are included as attachments.

JULY 24, 2006

RAILYARD SAMPLES – SCREENING AND HAULING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0724-RS-LA	Lead	482 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	482 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
0724-FB-LA	Lead	Field Blank	2.0 µg/sample	ND	NA
	Arsenic	Field Blank	3.0 µg/sample	ND	NA
0724-RS-N	Naphthas	482 minutes	0.52 mg/m ³	<0.52 mg/m ³	100 mg/m ³
0724-FB-N	Naphthas	Field Blank	0.01 mg/sample	ND	NA
0724-RS-DP	Diesel Particulate (as Elemental Carbon)	482 minutes	1.3 µg/m ³	<1.3 µg/m ³	20 µg/m ³
0724-DP-FB	Diesel Particulate (as Elemental Carbon)	Field Blank	1.3 µg/sample	ND	NA
0724-RS-P	PAHs (as benzene solubles)	482 minutes	0.031 mg/m ³	<0.031 mg/m ³	0.2 mg/m ³

BRIDGE SAMPLES – FILLING SANDBAGS, HAULING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0724-B-LA	Lead	482 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	482 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
0724-B-N	Naphthas	482 minutes	0.52 mg/m ³	<0.52 mg/m ³	100 mg/m ³
0724-B-DP	Diesel Particulate (as Elemental Carbon)	482 minutes	1.3 µg/m ³	<1.3 µg/m ³	20 µg/m ³
0724-B-P	PAHs (as benzene solubles)	482 minutes	0.031 mg/m ³	0.078 mg/m ³	0.2 mg/m ³

JULY 27, 2006

RAILYARD SAMPLES – SCREENING AND HAULING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0727-RS-LA	Lead	490 minutes	4.0 µg/m ³	<4.1 µg/m ³	50 µg/m ³
	Arsenic	490 minutes	4.1 µg/m ³	<4.1 µg/m ³	10 µg/m ³
0727-RS-N	Naphthas	490 minutes	0.50 mg/m ³	<0.50 mg/m ³	100 mg/m ³

BRIDGE SAMPLES – FILLING SANDBAGS, HAULING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0727-B-LA	Lead	490 minutes	4.0 µg/m ³	<4.1 µg/m ³	50 µg/m ³
	Arsenic	490 minutes	4.1 µg/m ³	<4.1 µg/m ³	10 µg/m ³
0727-B-N	Naphthas	490 minutes	0.50 mg/m ³	<0.50 mg/m ³	100 mg/m ³

JULY 24 THROUGH JULY 29, 2006

RESPIRABLE DUST MONITORING RESULTS - RAILYARD

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D417 Tag #37	July 24, 2006	333 µg/m ³	9.5 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D417 Tag #38	July 25, 2006	121 µg/m ³	10.2 µg/m ³	
DataRam4, Serial #D417 Tag #39	July 26, 2006	125 µg/m ³	7.5 µg/m ³	
DataRam4, Serial #D417 Tag #40	July 27, 2006	80 µg/m ³	5.7 µg/m ³	
DataRam4, Serial #D417 Tag #41	July 28, 2006	164 µg/m ³	11.4 µg/m ³	
DataRam4, Serial #D416 Tag #28	July 29, 2006	99 µg/m ³	4.9 µg/m ³	

RESPIRABLE DUST MONITORING RESULTS – BRIDGE

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D416 Tag #23	July 24, 2006	58 µg/m ³	7.8 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D416 Tag #24	July 25, 2006	50 µg/m ³	5.4 µg/m ³	
DataRam4, Serial #D416 Tag #25	July 26, 2006	117 µg/m ³	5.1 µg/m ³	
DataRam4, Serial #D416 Tag #26	July 27, 2006	268 µg/m ³	5.6 µg/m ³	
DataRam4, Serial #D416 Tag #27	July 28, 2006	156 µg/m ³	5.8 µg/m ³	
DataRam4, Serial #D417 Tag #42	July 29, 2006	66 µg/m ³	5.7 µg/m ³	

COMMUNITY NOISE MONITORING - RAILYARD

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
July 24, 2006	78.4 dB	113.7 dB	85 dB
July 25, 2006	76.7 dB	113.8 dB	
July 26, 2006	77.1 dB	114.8 dB	
July 27, 2006	76.4 dB	114.3 dB	
July 28, 2006	80.3 dB	118.5 dB	
July 29, 2006	76.2 dB	110.9 dB	

COMMUNITY NOISE MONITORING - BRIDGE

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
July 24, 2006	67.9 dB	98.5 dB	80 dB
July 25, 2006	48.9 dB	81.3 dB	
July 26, 2006	44.7 dB	75.1 dB	
July 27, 2006	67.9 dB	99.8 dB	
July 28, 2006	69.1 dB	103.6 dB	
July 29, 2006	67.2 dB	99.1 dB	

CONCLUSIONS

Based on this data, the sandbag filling, dirt hauling, and screening conducted during the week of July 24 through July 29, 2006 did not release the contaminants of concern or respirable dust in concentrations above the project action limits specified in the BNSF Skykomish Air and Noise Monitoring Plan for the areas monitored.

The average noise levels documented during the week of July 24 to 29, 2006 were below the project action limit for community noise in the areas monitored. Maximum noise levels were recorded at both locations above the project action level. These exceedances were for extremely short durations and occurred during periods when BNSF trains passed through the town and during some heavy equipment operations.

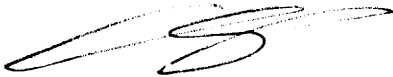
Although the elevated noise limits are above the project action limit, they do not exceed the King County Noise Code or the Skykomish Municipal Noise Code, which allows the action level for any source of construction noise that is of short duration to be increased by:

- 5 dB(A) for a total of fifteen minutes in any one-hour period; or
- 10 dB(A) for a total of five minutes in any one-hour period; or
- 15 dB(A) for a total of one and one-half minutes in any one-hour period.

All readings greater than 100 dB for the railyard and bridge monitoring stations were instantaneous readings that occurred while a train passed through town. Since train noise is exempt from the applicable noise codes, no exceedances of County or Municipal Code were recorded at either location during the monitoring period.


We appreciate the opportunity to be of service to you. Please contact us at (206) 285-3373 if you have questions regarding this report, or if you require additional information.

Sincerely,



Alex Peck
Industrial Hygienist

Reviewed by,



Elisabeth Black, CIH
Argus Pacific, Inc.

Attachments:

Air and Noise Monitoring Sample Locations Plan (07/24/06 and 07/29/06)

Laboratory Certificates of Analysis

DataChem Laboratories, Batch #061-4042-01
DataChem Laboratories, Batch #061-4042-02
DataChem Laboratories, Batch #061-3883-01
DataChem Laboratories, Batch #061-3883-02
DataChem Laboratories, Batch #061-3883-03
DataChem Laboratories, Batch #061-3883-04

DataRam4 data for instrument D-417 (07/24/06)
DataRam4 data for instrument D-417 (07/25/06)
DataRam4 data for instrument D-417 (07/26/06)
DataRam4 data for instrument D-417 (07/27/06)
DataRam4 data for instrument D-417 (07/28/06)
DataRam4 data for instrument D-417 (07/29/06)

DataRam4 data for instrument D-416 (07/24/06)
DataRam4 data for instrument D-416 (07/25/06)
DataRam4 data for instrument D-416 (07/26/06)
DataRam4 data for instrument D-416 (07/27/06)

DataRam4 data for instrument D-416 (07/28/06)
DataRam4 data for instrument D-416 (07/29/06)

Larson Davis 820 Noise Data – Bridge (07/24/06 – 07/29/06)
Larson Davis 820 Noise Data – Railyard (07/24/06 – 07/29/06)