

Levee Zone Interim Action for Cleanup 2006 – As-Built Completion Report

Former Maintenance and Fueling Facility

Skykomish, Washington

FILE 1 OF 2
Volume 2 of 2: Appendices D – ^IR

Prepared by:

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

RETEC Project Number: BN050-19390-230

Prepared for:

BNSF Railway Company
2454 Occidental Avenue S., Suite 1A
Seattle, Washington 98134-1451

July 2, 2007



Appendix D

Permits

- ▶ Temporary Water Use Authorization from Department of Ecology
- ▶ Amended Temporary Water Use Authorization from Department of Ecology
- ▶ Minor Modification to Agreed Order DE-2379 (Exhibit J) Wastewater Treatment from Department of Ecology
- ▶ Land Clearing and Right of Way/ Use Permit from Town of Skykomish
- ▶ Hydraulic Project Approvals from Washington Department of Fish and Wildlife
- ▶ Nationwide 38 from Department of Army
- ▶ Modification of NPDES Permit No. WA-003212-3 from Department of Ecology
- ▶ Building Permits from Town of Skykomish
- ▶ Draft King County Special Use Permit S-64-06

**BNSF SKYKOMISH
LEVEE AGREED ORDER and PERMIT
MODIFICATIONS**

Agreed Order DE-3279 (May 19, 2006)

<u>Date:</u>	<u>Modification:</u>
April 2, 2007	Exhibit E – Schedule extension granted for the As-Built Completion Report deliverable due March 30, 2007 extended to April 6, 2007
January 9, 2007	Exhibit E – Schedule extension granted due to adverse weather to have houses readied for occupancy and homes occupied by January 31, 2007.
December 21, 2006	Exhibit E – Schedule extension granted due to adverse weather to have houses readied for occupancy January 6, 2007 and residents moved back by January 12, 2007.
November 22, 2006	Exhibit J – Waste Water Treatment system modification granted for applying treated wastewater to the ground on the rail yard in order to manage stockpiles and runoff.
November 22, 2006	Exhibit E – Schedule extension granted due to adverse weather to have houses will readied for occupancy December 9, 2006 and residents moved back December 23, 2006.
September 12, 2006	Exhibit H.1 - This is a short-term modification to allow temporary exceedances of water quality turbidity standards.
September 4, 2006	Exhibit H.1 - This is a short-term modification to allow temporary exceedances of water quality turbidity standards.
August 29, 2006	Exhibit H.1 – this is a short-term modification to allow temporary exceedances of water quality turbidity standards.

**NPDES - National Permit Discharge Elimination System Permit
003212-3** (May 4, 2006 expiration May 4, 2011)

August 15, 2006	Permit modified to clarify language on recalculating chitosan dosage. A new section was added.
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HPA - Hydraulic Project Application

June 28, 2006	Control #105591-1 issued for work below the OHWM between June 29, and July 8, 2006.
June 30, 2006	Control #104012-1 issued for work below the OHWM between July 1 and August 31, 2006
July 11, 2006	Control #105591-2 issued for work below the OHWM between July 12 and July 31, 2006
August 30, 2006	Control #104012-2 issued for extension of the fish window.
September 12, 2006	Control #104012-3 issued for extension of the fish window.

Nationwide Individual Permit (NW38)

June 26, 2006	200500328 – no modifications
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King County Special Use Permit S-64-06

July 18, 2006	Draft Issued
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King County Temp Septic Systems- Included in House Moving Appendix, Appendix G

July 10, 2006	Letters to Michael Moore, Bob and Charlotte Mackner and the Skykomish School District Teacherage House
January 4, 2007	Pressure Test Without Permanent Power Letters

Town of Skykomish

May 23, 2006	Receipt 7448 Land Clearing, Grading, Right-of-way Permits
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**Temporary Water Use Authorization from
Department of Ecology**



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

JUN 28 2006

CERTIFIED MAIL

7005 1820 0000 6708 0264

Bruce Sheppard
BNSF Railway Company
2454 Occidental Street, Suite 1A
Seattle, WA 98134-1451

Dear Mr. Sheppard:

SUBJECT: S1- 28447, BNSF Railway Company Temporary Water Use Authorization

On June 27, 2006, the Washington State Department of Ecology (Ecology) received a request to appropriate water from the South Fork Skykomish River. The application is assigned the water right tracking number S1- 28447.

The request is to divert 500 gallons per minute and 0.31 acre-feet per year (100,000 gallons) for the one time purpose of initially charging a wastewater treatment system during a date between June 28, 2006, through July 3, 2006.

Minimum instream flows were established in WAC 173-507-020 at ten locations in the Snohomish River basin, with an additional 22 low flow provisions established in WAC 173-507-030 for various tributaries of the major surface water bodies. Instream flows were established on the Snoqualmie River at Snoqualmie and Carnation, and on the Snohomish River near Monroe, and on the Skykomish, Pilchuck, and Tolt Rivers.

STREAM MANAGEMENT UNIT INFORMATION

Control Station No. Stream Management Unit Name	Control Station by River Mile and Section, Township and Range	Affected Stream Reach Including Tributaries
12.1330.00 So. Fk. Skykomish River	51.6 28-27-10E	From confluence with N. Fk. Skykomish River to headwaters.

The South Fork Skykomish instream flow requirement from June 15 through July 15 is 1,250 cubic feet per second.

As of June 27, 2006, the real time USGS gage 12134500 - Skykomish River near Gold Bar, Washington, the instream flows of the South Fork Skykomish were between 6,000 and 7,000 cfs.

The Project

The waste water treatment system is located along the bank of the South Fork Skykomish River on land owned by the Town of Skykomish. The point of diversion is located 1,200 feet north and 750 east of the southwest corner of Section, 26 Township 26 north, Range 11 east W.M. in King County.

The purpose of use is to initially charge a water treatment system designed to treat water as part of the Skykomish Levee Cleanup summer project. The treatment system will be used to clean and filter construction stormwater and contaminated groundwater prior to being discharged into the South Fork Skykomish River under National Pollutant Discharge, Eliminate System (NPDES) permit # WA-003212-03.

The one-time pumping event will use water pumped from the deepest river bottom possible. The intake hose is attached to a screw-sucker pump; it will have a round 6 inch diameter opening with two layers of 1/8 inch metal screen covering the opening to protect juvenile or adult fish from becoming involved with the intake hose. The diverted water will run through a series of treatment methods and be stored in Baker tanks prior to discharge back to the South Fork Skykomish River under the NPDES permit.

Ecology's Determination

Ecology has determined that water is available for this one time, temporary, non-consumptive water use project. The instream flow data of June 27, 2006 record that instream flows of the South Fork Skykomish are being met, therefore it is not anticipated that senior rights would be impaired from this diversion of water.

Therefore, this letter is authorization to appropriate water in the quantity of up to 500 gallons per minute and 0.31 acre-feet per year for the one-time use (from June 28, 2006 to July 3, 2006) to initially charge a water treatment system, located in the SW ¼ SW ¼ of Section 26, Township 26 north, Range 11 east, W.M. in King County.

You have the right to appeal this water right decision to the Pollution Control Hearing Board. Pursuant to chapter 43.21B RCW, your appeal must be filed with the Pollution Control Hearings Board, and served on the Department of Ecology, within thirty (30) days of the date of your receipt of this document.

To appeal this action or decision, your notice of appeal must control a copy of the Ecology order, action, or decision you are appealing.

Your appeal must be filed with:

The Pollution Control Hearings Board
4224 – 6th Avenue SE, Rowe, Six, bldg. 2
P.O. Box 40903
Lacey, Washington 98504-0903

Your appeal must also be served on:

The Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, Washington 98504-7608

In addition, please send a copy of your appeal to:

Water Resources Program
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008-5452

An appeal alone will not stay the effectiveness of this decision. Stay request must be submitted in accordance with RCW 43.21B.320.

For additional information: Environmental Hearings Office Website:
<http://www.eho.wa.gov>

Sincerely,



Daniel Swenson
Section Supervisor
Water Resources Program

cc: Mr. Dan Berlin, The RETEC Group

**Amended Temporary Water Use Authorization from
Department of Ecology**

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

July 10, 2006

Bruce Shepperd
BNSF Railway Company
2454 Occidental Street, Suite 1A
Seattle, Washington 98134-1451

Dear Mr. Shepperd:

SUBJECT: AMENDED S1- 28447, BNSF Railway Company Temporary Water Use
Authorization

On June 27, 2006, the Washington State Department of Ecology (Ecology) received a request to appropriate water from the South Fork Skykomish River. The application is assigned the water right tracking number S1- 28447.

The request is to divert 500 gallons per minute and 0.31 acre-feet per year (100,000 gallons) for the one time purpose of initially charging a wastewater treatment system during a date between June 28, 2006 through July 3, 2006.

On July 10, 2006, Ecology staff received a voice mail that the project was unable to be completed during the time frame of June 28, 2006 through July 3, 2006. The new request was to extend the dates for project completion. Ecology is thereby amending the temporary use permit to reflect a new time frame to July 10, through July 21, 2006.

Minimum instream flows were established in WAC 173-507-020 at ten locations in the Snohomish River basin, with an additional 22 low flow provisions established in WAC 173-507-030 for various tributaries of the major surface water bodies. Instream flows were established on the Snoqualmie River at Snoqualmie and Carnation, and on the Snohomish River near Monroe, and on the Skykomish, Pilchuck, and Tolt Rivers.

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Control Station No. Stream Management Unit Name	Control Station by River Mile and Section, Township and Range	Affected Stream Reach Including Tributaries
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The South Fork Skykomish instream flow requirement from June 15 through July 15 is 1,250 cubic feet per second.

As of July 10, 2006, the real time USGS gage 12134500 - Skykomish River near Gold Bar, Washington, the instream flows of the South Fork Skykomish were between 3,500 and 2,430 cfs, with rain expected this week.

The Project

The waste water treatment system is located along the bank of the South Fork Skykomish River on land owned by the Town of Skykomish. The point of diversion is located 1,200 feet north and 750 east of the southwest corner of Section, 26 Township 26 north, Range 11 east W.M. in King County.

The purpose of use is to initially charge a water treatment system designed to treat water as part of the Skykomish Levee Cleanup summer project. The treatment system will be used to clean and filter construction stormwater and contaminated groundwater prior to being discharged into the South Fork Skykomish River under National Pollutant Discharge Eliminate System (NPDES) permit # WA-003212-03.

The one-time pumping event will use water pumped from the deepest river bottom possible. The intake hose is attached to a screw-sucker pump; it will have a round 6 inch diameter opening with two layers of 1/8 inch metal screen covering the opening to protect juvenile or adult fish from becoming involved with the intake hose. The diverted water will run through a series of treatment methods and be stored in Baker tanks prior to discharge back to the South Fork Skykomish River under the NPDES permit.

Ecology's Determination

Ecology has determined that water is available for this one time, temporary, non-consumptive water use project. The instream flow data of July 10, 2006 record that instream flows of the South Fork Skykomish are being met, therefore it is not anticipated that senior rights would be impaired from this diversion of water.

Therefore, this letter is authorization to appropriate water in the quantity of up to 500 gallons per minute and 0.31 acre-feet per year for the one-time use (from July 10, 2006 to July 21, 2006) to initially charge a water treatment system, located in the SW ¼ SW ¼ of Section 26, Township 26 north, Range 11 east, W.M. in King County.

You have the right to appeal this water right decision to the Pollution Control Hearing Board. Pursuant to chapter 43.21B RCW, your appeal must be filed with the Pollution Control Hearings Board, and served on the Department of Ecology, within thirty (30) days of the date of your receipt of this document.

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In addition, please send a copy of your appeal to:

Water Resources Program
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008-5452

An appeal alone will not stay the effectiveness of this decision. Stay request must be submitted in accordance with RCW 43.21B.320.

For additional information: Environmental Hearings Office Website:
<http://www.eho.wa.gov>

Sincerely,



*Daniel Swenson
Section Supervisor
Water Resources Program*

Cc: The RETEC Group
Mr. Dan Berlin
1011 SW Klickitat Way, Suite 207
Seattle, Washington 98134-1162

**Minor Modification to Agreed Order DE-2379
(Exhibit J) Wastewater Treatment from
Department of Ecology**



COPY

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

November 22, 2006

Mr. Bruce Sheppard
BNSF Railway Company
2454 Occidental Avenue South, Suite 1A
Seattle, Washington 98134-1451

Dear Mr. Sheppard:

Re: Minor Modification to Agreed Order DE-2379 (Exhibit J) Wastewater Treatment
BNSF Former Maintenance and Fueling Facility, Skykomish, WA

This letter documents a minor change to the work being performed by the BNSF Railway Company (BNSF) under Agreed Order DE-2379 (Order), which we have both agreed to in our role as project coordinators under Sections VIII.D and VIII.L of the Order.

Under the Order, BNSF is currently stockpiling contaminated sediment dredged from the Skykomish River and excavated soil from certain upland areas of the BNSF Skykomish Site (Site), on BNSF property. BNSF is required by the Order to implement measures to manage surface water runoff from such stockpiles. BNSF is requesting a minor modification to the Order to allow for the existing wastewater treatment system located near the Skykomish River to be moved to the rail yard and utilized specifically for purposes of treating runoff from these stockpiles. BNSF will apply the treated wastewater to the ground on its property. We have both verbally agreed to this change and consider it to be a minor modification to the work already being performed under the Order. Pursuant to RCW 70.105D.090(1) and WAC 173-340-710(9)(e), Ecology and BNSF have identified the additional substantive requirements that apply to this change, which are documented below.

Minor change to Agreed Order:

Beginning November 1 and extending through March 30, 2007, BNSF may apply treated wastewater to BNSF property for the purpose of managing runoff from the soil and sediment stockpile currently located on the BNSF property.



ATTACHMENT A

EXHIBIT J
Agreed Order DE-2379

GENERAL INFORMATION	
Applicant and Address	BNSF Railway Company 2454 Occidental Avenue South, STE 1A Seattle, WA 98134 Attention: Bruce Sheppard
Facility Name and Address	BNSF Skykomish Cleanup Site Skykomish, WA
Type of Facility	Contaminated Soil Remediation
Discharge Location	Ground via Land Application
Legal Description of Application Area	Legal Description: The NE Section 26, Township 26N, Range 1E Latitude: 47° 42' 33" N Longitude: 121° 21' 36" W

SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of Exhibit J for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Monthly	December 15, 2006

C. Land Application during Extreme Cold Weather

Wastewater shall not be land applied during cold periods when the ground surface is frozen.

D. Surface Water Discharge

There shall be **no direct discharge of wastewater to surface waters** of the state from the contaminated soil stockpile.

S2. MONITORING REQUIREMENTS

BNSF Railway Company shall monitor in accordance with the following schedule:

A. Monitoring Schedule for Treated Stockpile Runoff

Samples shall be collected after granular activated carbon treatment (see attached process flow diagram Figure 1) and prior to discharge to land surface.

Parameter	Units	Minimum Sampling Frequency	Sample Type	Test Method
Flow	gpm	Continuous	Metered	N/A
pH (s.u.)	Standard Units	Weekly	Grab	EPA 150.1
Benzene	µg/L	Weekly	Grab	SW8260B
BTEX	µg/L	Weekly	Grab	SW8260B
Total Petroleum Hydrocarbons (TPH) ^a	µg/L	Weekly (Two samples: One before and one after GAC treatment)	Grab	NWTPH-D _x
Polynuclear Aromatic Hydrocarbons (PAH)	µg/L	Weekly	Grab	SW8270-SIM
Total Lead	µg/L	Once every two weeks	Grab	EPA 200.8
Total Arsenic	µg/L	Once every two weeks	Grab	EPA 200.8
Total Chromium	µg/L	Once every two weeks ^b	Grab	EPA 200.8
Total Copper	µg/L	Once every two weeks ^b	Grab	EPA 200.8
^a For each sampling event, BNSF Railway Company shall also collect one sample before and after the first Granular Activated Carbon (GAC) column for TPH analysis. Results from samples collected before the GAC treatment will be used to evaluate the performance and removal efficiency of the GAC columns (See S4, O&M of the permit for details). BNSF Railway Company shall change out the GAC column as often as necessary to ensure compliance with the effluent limits.				
^b The sampling frequency for chromium, and copper will be eliminated if the four consecutive sample results indicate compliance with the groundwater standards (chromium is 50 µg/L, and copper is 1 mg/L).				

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of Exhibit J shall be representative of the volume and nature of the monitored parameters, including

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

BNSF Railway Company shall retain records of all monitoring information for a minimum of three (3) years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by Exhibit J, and records of all data used to complete the application for Exhibit J. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by BNSF Railway Company or when requested by the Director.

C. Recording of Results

For each measurement or sample taken, BNSF Railway Company shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by BNSF Railway Company

If BNSF Railway Company monitors any pollutant more frequently than required by Exhibit J using test procedures specified by Condition S2 of Exhibit J, then the results of this monitoring shall be included in calculation and reporting of the data submitted in BNSF Railway Company's self-monitoring reports.

E. Noncompliance Notification

In the event BNSF Railway Company is unable to comply with any of the permit terms and conditions due to any cause, BNSF Railway Company shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;
2. Repeat sampling and analysis of any violation and submit the results to the Department within thirty (30) days after becoming aware of the violation;
3. Immediately notify the Department of the failure to comply; and

1. *Unavoidable Bypass* -- Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

If the resulting bypass from any portion of the treatment system results in noncompliance with Exhibit J, BNSF Railway Company shall notify the Department in accordance with condition S3.E "Noncompliance Notification."

2. *Anticipated Bypass that has the Potential to Violate Permit Limits or Conditions* -- Bypass is authorized by an administrative order issued by the Department. BNSF Railway Company shall notify the Department at least thirty (30) days before the planned date of bypass. The notice shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Department will consider the following prior to issuing an administrative order:
 - a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of Exhibit J.
 - b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
 - c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, the Department will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by the Department under RCW 90.48.120.

B. Leachate

No stockpile runoff or leachate shall be allowed to enter state waters without providing all known, available, and reasonable methods of treatment, nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC.

inspection. Representatives of the Department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. ORDER ACTIONS

Exhibit J shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify Exhibit J, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

BNSF Railway Company shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by Exhibit J. This application shall be submitted at least sixty (60) days prior to any proposed changes. Submission of this application does not relieve BNSF Railway Company of the duty to comply with the existing permit until it is modified or reissued.

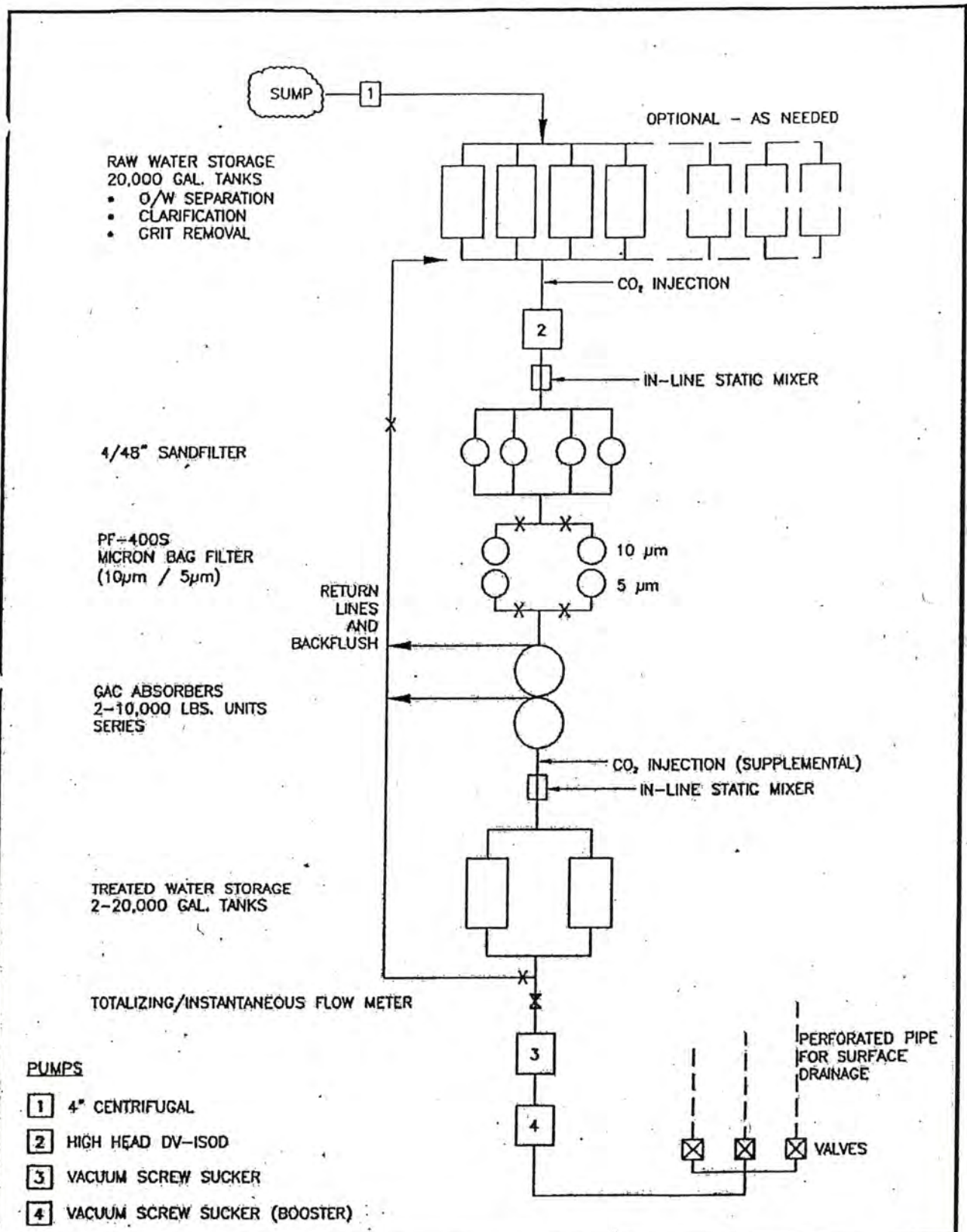
G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least one hundred and eighty (180) days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing BNSF Railway Company from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

File: H:\16423 -CFT-TREATMENT.dwg Layout: ANSI_AW-LJ User: emorshall Plotted: Oct 24, 2001 12:18pm Xref's



PUMPS

- 1 4" CENTRIFUGAL
- 2 HIGH HEAD DV-ISOD
- 3 VACUUM SCREW SUCKER
- 4 VACUUM SCREW SUCKER (BOOSTER)



		STOCKPILE AREA RUN-OFF TREATMENT SYSTEM WITH SURFACE TO GROUNDWATER DISCHARGE	
DATE: 10/18/06	DRAWN: E.M./SEA	FIGURE 2	

**Land Clearing and Right of Way/Use Permit from
Town of Skykomish**



Town of Skykomish

☒ LAND CLEARING PERMIT

☒ GRADING PERMIT

☒ RIGHT OF WAY / USE PERMIT

☐ DEMOLITION PERMIT

☐ SIGN PERMIT

☐ SPECIAL EVENTS PERMIT

NO WORK OR ACTIVITY MAY BE STARTED WITHOUT APPROVAL AND ISSUANCE FROM THE TOWN OF THE REQUIRED PERMIT.

FOR SPECIAL EVENT PERMITS A CERTIFICATE OF INSURANCE NAMING THE TOWN OF SKYKOMISH AS AN ADDITIONAL INSURED MUST BE ATTACHED TO THIS PERMIT.

APPLICANT

Name: The RETEC Group, Inc.

Address: 1011 SW Klickitat Way, Suite 207, Seattle, WA 98134

Contact Person: Halah Voges

INSTALLER/ORGANIZER

Name: The RETEC Group, Inc.

Address: 1011 SW Klickitat Way, Suite 207, Seattle, WA 98134

Contact Person: Halah Voges

JOB/EVENT LOCATION: Areas of the South Fork Skykomish River (west of the 5th Street bridge), the flood control levee along West River Drive, and adjacent properties (northern portion of 105 6th Street, 124 6th Street, 120 6th Street, and 125 and 125 ½ 5th Street).

UTILITY WORK ORDER NUMBER: N/A

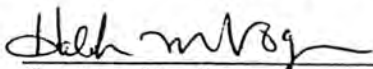
APPROVAL OF SUBSTANTIVE REQUIREMENTS OF THE NORMALLY REQUIRED PERMITS ARE A PERMIT IS REQUESTED FOR THE FOLLOWING:

The existing flood control levee will be removed to allow for removal of contaminated river sediments, soil, groundwater, and surface water. Five houses will be moved to allow for excavation from below the lots. Contaminated materials will be disposed of off site and clean material will be used to backfill to existing grades. The work is being conducted under an Agreed Order between BNSF Railway Company and the Washington Department of Ecology (# DE 3279). Additional description of the work is contained in the following documents and materials that have been distributed to the Town:

- Joint Aquatic Resources Permit Application (JARPA) dated January 11, 2006
- Final Engineering Design Report (EDR), dated March 4, 2006
- Final Environmental Impact Statement (EIS), dated April 27, 2006
- Letter to Charlotte Mackner re: compliance with Skykomish Shoreline Master Program, dated March 23, 2006

GENERAL CONDITIONS:

- a. Comply with all applicable town ordinances, town design and construction standards, specification policies and administrative procedures.
- b. Agree to defend, indemnify and hold harmless the Town of Skykomish, its officers, employees and agents, from any and all suits, claims, causes of action or liabilities caused by or arising out of any activities conducted by the permittee resulting from issuance of the permit.
- c. Agree to maintain ingress and egress for vehicles and persons to abutting property at all times, unless written consent for an alternative plan is obtained from the town and impacted business or property owner.
- d. Agree to be responsible for providing adequate work zone safety controls for the protection of public pedestrians and vehicular traffic in and around the site.
- e. Agree to be responsible for restoration and clean up of the street, sidewalk, curb and gutter and adjacent property to original or better condition immediately upon completion of the project.
- f. Agree to be responsible for providing a safe work environment for its employees according to OSHA and WISHA standards.
- g. Agree to be responsible for all site security during non-construction hours including providing adequate warning devices and barriers to hazardous conditions.
- h. Agree to be responsible for the protection of all foundations, buildings, fences, walls or other property likely to be damaged during the progress of the project, and agree to be responsible for the repair of any damaged items.
- i. Agree to be responsible for the security and protection of any unguarded machinery, equipment, materials or other device having the characteristic of an attractive nuisance likely to attract children and hazardous to their safety.
- j. Agree to be responsible for the location of all public and private utilities prior to any excavation work. CALL FOR UTILITY LOCATES 1-800-424-5555 2 DAYS PRIOR TO DIGGING.
- k. Agree to be responsible for protecting all public and private utilities from damage while excavation work is being done.
- l. Agree to be responsible for damage done to private property due to damage to utilities, such as water pipes, sewer, gas pipe, electric conduit or other utility.
- m. Traffic control signs, road obstructions, barricades, and traffic control plans shall be in accordance with Part VI of the Manual on Uniform Traffic Control devices.
- n. Performance bond may be required.
- o. Failure to comply with these conditions may result in a posting of a Stop Work Order, which will remain in-place until the issue(s) resulting in the posting of a Stop Work Order are resolved to the satisfaction of the Public Works Department.

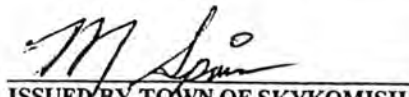

Signature of Applicant

5-15-06
Date

SPECIAL CONDITIONS: _____

Payment of Permit Fee: \$ 250.00

Receipt # 7448


ISSUED BY TOWN OF SKYKOMISH

5-23-06
DATE

SITE REVIEW

Nov 30, 2006
PERMIT EXPIRATION DATE

**Hydraulic Project Approvals from Washington
Department of Fish and Wildlife**



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: June 28, 2006

Project Expiration Date: July 05, 2006

Control Number: 105591-1

FPA/Public Notice #: N/A

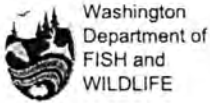
<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
BNSF Railway Company ATTENTION: Dan Berlin Suite 1A Seattle, WA 98134-1451 206-624-9349 Fax: 206-625-6007	The Retec Group, Inc. ATTENTION: Dan Berlin Suite 207 Seattle, WA 98134-1162 206-629-3494 Fax: 206-626-2839

Project Name: Skykomish Levee Removal Temporary Bypass

Project Description: Temporarily bypass river water to initiate an on-site water treatment system on the SF Skykomish River at Skykomish.

PROVISIONS

1. TIMING LIMITATIONS: Work below the ordinary high water line shall only occur between June 29 and July 8, 2006.
2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled Addendum to Skykomish Levee Removal and dated June 23, 2006, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
3. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.
4. Upon completion of the project, all material used in the temporary bypass shall be removed from the site and the site returned to preproject or improved conditions.
5. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened with 1/8-inch mesh to prevent fish from entering the system. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment to juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake. The screen shall be shall be attached securely-- NO Duct Tape!
6. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.
7. The point of discharge will be above the Ordinary High Water Mark (OHWM).
8. Equipment used for this project shall be free of external petroleum-based products while working around the stream. Equipment shall be checked daily for leaks and any necessary repairs shall be



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completed prior to commencing work activities along the stream.

9. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Department of Ecology at 1-800-258-5990, and to the Area Habitat Biologist listed below.

PROJECT LOCATIONS

Location #1 BNSF

WORK START: June 29, 2006				WORK END: July 05, 2006		
WRIA: 07.0012		Waterbody: Snohomish River			Tributary to: Puget Sound	
1/4 SEC: S 1/2	Section: 26	Township: 26 N	Range: 11 E	Latitude: N 47.71040	Longitude: W 121.36138	County: King
Location #1 Driving Directions						
The project is actually on the SOUTH Fork Skykomish (07.0012) River at the Town of Skykomish.						

NOTES

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued pursuant to RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.141 are subject to additional restrictions, conditions or revocation if the Department of Fish and Wildlife determines that new biological or physical information indicates the need for such action. The person(s) to whom this Hydraulic Project Approval is issued has the right pursuant to Chapter 34.04 RCW to appeal such decisions. All agricultural irrigation, stock watering or bank stabilization Hydraulic Project Approvals issued pursuant to RCW 77.55.021 may be modified by the Department of Fish and Wildlife due to changed conditions after

Issue Date: June 28, 2006
Project Expiration Date: July 05, 2006

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consultation with the person(s) to whom this Hydraulic Project Approval is issued: PROVIDED HOWEVER, that such modifications shall be subject to appeal to the Hydraulic Appeals Board established in RCW 77.55.301.

APPEALS INFORMATION

If you wish to appeal the issuance or denial of, or conditions provided in a Hydraulic Project Approval, there are informal and formal appeal processes available.

A. INFORMAL APPEALS (WAC 220-110-340) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021, 77.55.141, 77.55.181, and 77.55.291: A person who is aggrieved or adversely affected by the following Department actions may request an informal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval; or

(B) An order imposing civil penalties. A request for an INFORMAL REVIEW shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091 and shall be RECEIVED by the Department within 30 days of the denial or issuance of a Hydraulic Project Approval or receipt of an order imposing civil penalties. If agreed to by the aggrieved party, and the aggrieved party is the Hydraulic Project Approval applicant, resolution of the concerns will be facilitated through discussions with the Area Habitat Biologist and his/her supervisor. If resolution is not reached, or the aggrieved party is not the Hydraulic Project Approval applicant, the Habitat Technical Services Division Manager or his/her designee shall conduct a review and recommend a decision to the Director or his/her designee. If you are not satisfied with the results of this informal appeal, a formal appeal may be filed.

B. FORMAL APPEALS (WAC 220-110-350) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.291:

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C. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (agricultural irrigation, stock watering or bank stabilization only), 77.55.141, 77.55.181, or 77.55.241: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The request for FORMAL APPEAL shall be in WRITING to the Hydraulic Appeals Board per WAC 259-04 at Environmental Hearings Office, 4224 Sixth Avenue SE, Building Two - Rowe Six, Lacey, Washington 98504; telephone 360/459-6327.

D. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO CHAPTER 43.21L RCW: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The FORMAL APPEAL shall be in accordance with the provisions of Chapter 43.21L RCW and Chapter 199-08 WAC. The request for FORMAL APPEAL shall be in WRITING to the Environmental and Land Use Hearings Board at Environmental Hearings Office, Environmental and Land Use Hearings Board, 4224 Sixth Avenue SE, Building Two - Rowe Six, P.O. Box 40903, Lacey, Washington 98504; telephone 360/459-6327.



Washington
Department of
FISH and
WILDLIFE

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E. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS results in forfeiture of all appeal rights. If there is no timely request for an appeal, the department action shall be final and unappealable.

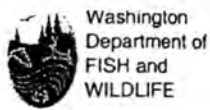
ENFORCEMENT: Sergeant Chandler (34) P3

Habitat Biologist
Bill Mavros

mavrobm@dfw.wa.gov
425-649-1349

for Director
WDFW

CC:



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: July 11, 2006

Control Number: 105591-2

Project Expiration Date: July 31, 2006

FPA/Public Notice #: N/A

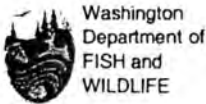
<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
BNSF Railway Company ATTENTION: Dan Berlin Suite 1A Seattle, WA 98134-1451 206-624-9349 Fax: 206-625-6007	The Retec Group, Inc. ATTENTION: Dan Berlin Suite 207 Seattle, WA 98134-1162 206-629-3494 Fax: 206-626-2839

Project Name: Skykomish Levee Removal Temporary Bypass

Project Description: Temporarily bypass river water to initiate an on-site water treatment system on the SF Skykomish River at Skykomish.

PROVISIONS

1. TIMING LIMITATIONS: Work below the ordinary high water line shall only occur between July 12 and July 31, 2006.
2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled Addendum to Skykomish Levee Removal and dated June 23, 2006, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
3. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.
4. Upon completion of the project, all material used in the temporary bypass shall be removed from the site and the site returned to preproject or improved conditions.
5. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened with 1/8-inch mesh to prevent fish from entering the system. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment to juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake. The screen shall be shall be attached securely-- NO Duct Tape!
6. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.
7. The point of discharge will be above the Ordinary High Water Mark (OHWM).
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Control Number: 105591-2

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PROJECT LOCATIONS

Location #1 BNSF

WORK START: July 12, 2006				WORK END: July 31, 2006		
WRIA: 07.0012		Waterbody: Snohomish River			Tributary to: Puget Sound	
1/4 SEC: S 1/2	Section: 26	Township: 26 N	Range: 11 E	Latitude: N 47.71040	Longitude: W 121.36138	County: King
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FPA/Public Notice #: N/A

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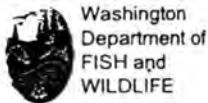
ENFORCEMENT: Sergeant Chandler (34) P3

Habitat Biologist
Bill Mavros

mavrobm@dfw.wa.gov
425-649-1349

for Director
WDFW

CC:



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: June 30, 2006
Project Expiration Date: August 31, 2006

Control Number: 104012-1
FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
BNSF Railway Company ATTENTION: Dan Berlin Suite 1A Seattle, WA 98134-1451 206-624-9349 Fax: 206-625-6007	The Retec Group, Inc. ATTENTION: Dan Berlin Suite 207 Seattle, WA 98134-1162 206-629-3494 Fax: 206-626-2839

Project Name: Skykomish Levee Removal
Project Description: Remove and replace 650 feet of the left bank levee on the SF Skykomish River at Skykomish.

PROVISIONS

1. TIMING LIMITATIONS: Work below the ordinary high water line shall only occur between July 1 and August 31, 2006. Fish passage will be monitored at Sunset Falls. If chinook runs are delayed during the latter part of August, an extension to the fish window may be granted upon the discretion of the Habitat Biologist.
2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled Skykomish Levee Removal and dated May 3, 2006, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
3. The dike removal activities shall occur in an area contained by the coffer dam.
4. Both inner and outer coffer dams shall be constructed of flexible intermediate bulk containers (FIBCs).
5. Round river rock shall be placed along the outside of the outer cofferdam as needed to prevent the river from scouring the sediments under the coffer dam. No rip-rap shall be used.
6. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.
7. Dike materials and temporary access road materials shall be disposed according to DOE protocols.
8. The dike removal shall not cause adult and/or juvenile fish stranding during the project.
9. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened with 1/8-inch mesh to prevent fish from entering the

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Control Number: 104012-1

Project Expiration Date: August 31, 2006

FPA/Public Notice #: N/A

system. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment to juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.

10. Equipment used for this project shall be free of external petroleum-based products while working around the stream. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities along the stream.

11. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Department of Ecology at 1-800-258-5990, and to the Area Habitat Biologist listed below.

12. Erosion control methods shall be used to prevent silt-laden water from entering the stream.

13. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.

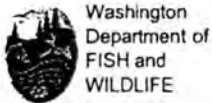
14. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

15. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

16. Alteration or disturbance of the bank and bank vegetation shall be limited to that necessary to construct the project. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means. Within one year of project completion, the banks, including riprap areas, shall be revegetated with native or other approved woody species. Vegetative cuttings shall be planted at a maximum interval of three feet (on center) and maintained as necessary for three years to ensure 80 percent survival or as per the Nationwide 38 USCOE permit.

17. Bank protection material shall not constrict the flow and cause any appreciable increase (not to exceed 0.2 feet) in backwater elevation (calculated at the 100-year flood) or channel-wide scour, and shall be aligned to cause the least effect on the hydraulics of the stream.

18. The permittee shall capture and safely move food fish, game fish, and other fish life from the job site. The permittee shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the project site. The permittee may request the Washington Department of Fish and Wildlife assist in capturing and safely moving fish life from the job site to free-flowing water, and assistance may be granted if personnel are available.



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PROJECT LOCATIONS

Location #1 BNSF

WORK START: July 01, 2006				WORK END: August 31, 2006		
WRIA: 07.0012		Waterbody: Snohomish River			Tributary to: Puget Sound	
1/4 SEC: S 1/2	Section: 26	Township: 26 N	Range: 11 E	Latitude: N 47.71040	Longitude: W 121.36138	County: King
Location #1 Driving Directions						
The project is actually on the SOUTH Fork Skykomish (07.0012) River at the Town of Skykomish.						

NOTES

Old hpa #100906 withdrawn.

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If you wish to appeal the issuance or denial of, or conditions provided in a Hydraulic Project Approval, there are informal and formal appeal processes available.

A. INFORMAL APPEALS (WAC 220-110-340) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021, 77.55.141, 77.55.181, and 77.55.291: A person who is aggrieved or adversely affected by the following Department actions may request an informal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval; or

(B) An order imposing civil penalties. A request for an INFORMAL REVIEW shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091 and shall be RECEIVED by the Department within 30 days of the denial or issuance of a Hydraulic Project Approval or receipt of an order imposing civil penalties. If agreed to by the aggrieved party, and the aggrieved party is the Hydraulic Project Approval applicant, resolution of the concerns will be facilitated through discussions with the Area Habitat Biologist and his/her supervisor. If resolution is not reached, or the aggrieved party is not the Hydraulic Project Approval applicant, the Habitat Technical Services Division Manager or his/her designee shall conduct a review and recommend a decision to the Director or his/her designee. If you are not satisfied with the results of this informal appeal, a formal appeal may be filed.

B. FORMAL APPEALS (WAC 220-110-350) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.291:

A person who is aggrieved or adversely affected by the following Department actions may request a formal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval;

(B) An order imposing civil penalties; or

(C) Any other 'agency action' for which an adjudicative proceeding is required under the Administrative Procedure Act, Chapter 34.05 RCW.

A request for a FORMAL APPEAL shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, shall be plainly labeled as 'REQUEST FOR FORMAL APPEAL' and shall be RECEIVED DURING OFFICE HOURS by the Department at 600 Capitol Way North, Olympia, Washington 98501-1091, within 30-days of the Department action that is being challenged. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, the deadline for requesting a formal appeal shall be within 30-days of the date of the Department's written decision in response to the informal appeal.

C. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (agricultural irrigation, stock watering or bank stabilization only), 77.55.141, 77.55.181, or 77.55.241: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The request for FORMAL APPEAL shall be in WRITING to the Hydraulic Appeals Board per WAC 259-04 at Environmental Hearings Office, 4224 Sixth Avenue SE, Building Two - Rowe Six, Lacey, Washington 98504; telephone 360/459-6327.

D. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO CHAPTER 43.21L RCW: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The FORMAL APPEAL shall be in accordance with the provisions of Chapter 43.21L RCW and Chapter 199-08 WAC. The request for FORMAL APPEAL shall be in WRITING to the Environmental and Land Use Hearings Board at Environmental Hearings Office, Environmental and Land Use Hearings Board, 4224 Sixth Avenue SE, Building Two - Rowe Six, P.O. Box 40903, Lacey, Washington 98504; telephone 360/459-6327.

E. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS results in forfeiture of all appeal rights. If there is no timely request for an appeal, the department action shall be final and unappealable.



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: June 30, 2006

Control Number: 104012-1

Project Expiration Date: August 31, 2006

FPA/Public Notice #: N/A

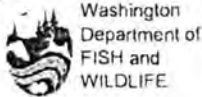
ENFORCEMENT: Sergeant Chandler (34) P1

Habitat Biologist
Bill Mavros

mavrobm@dfw.wa.gov
425-649-1349

for Director
WDFW

CC:



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: August 30, 2006

Control Number: 104012-2

Project Expiration Date: September 08, 2006

FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
BNSF Railway Company ATTENTION: Dan Berlin Suite 1A Seattle, WA 98134-1451 206-624-9349 Fax: 206-625-6007	The Retec Group, Inc. ATTENTION: Dan Berlin Suite 207 Seattle, WA 98134-1162 206-629-3494 Fax: 206-626-2839

Project Name: Skykomish Levee Removal Permit Extension

Project Description: Remove and replace 650 feet of the left bank levee on the SF Skykomish River at Skykomish.

PROVISIONS

1. TIMING LIMITATIONS: An extension to the fish window till ~~September 8, 2006~~ is granted to work below the ordinary high water line. *This extension expires September 11, 2006*

2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled Skykomish Levee Removal and dated May 3, 2006, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction. *DM 9/8/06*

3. The dike removal activities shall occur in an area contained by the coffer dam.

4. Both inner and outer coffer dams shall be constructed of flexible intermediate bulk containers (FIBCs).

5. Round river rock shall be placed along the outside of the outer cofferdam as needed to prevent the river from scouring the sediments under the coffer dam. No rip-rap shall be used.

6. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.

7. Dike materials and temporary access road materials shall be disposed according to DOE protocols.

8. The dike removal shall not cause adult and/or juvenile fish stranding during the project.

9. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened with 1/8-inch mesh to prevent fish from entering the system. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be

Issue Date: September 12, 2006
Project Expiration Date: September 15, 2006

Control Number: 104012-3
FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
BNSF Railway Company ATTENTION: Dan Berlin Suite 1A Seattle, WA 98134-1451 206-624-9349 Fax: 206-625-6007	The Retec Group, Inc. ATTENTION: Dan Berlin Suite 207 Seattle, WA 98134-1162 206-629-3494 Fax: 206-626-2839

Project Name: Skykomish Levee Removal Permit Extension
Project Description: Remove and replace 650 feet of the left bank levee on the SF Skykomish River at Skykomish.

PROVISIONS

1. **TIMING LIMITATIONS:** An extension to the fish window till September 15, 2006 is granted to work below the ordinary high water line.
2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife (WDFW) entitled Skykomish Levee Removal and dated May 3, 2006, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
3. Given the intrusive nature of the interim turbidity exceedances and the potential impacts to fisheries resources downstream of the site, WDFW will be consulting with Washington Department of Ecology (WDOE) to ascertain if any fisheries impacts have occurred by these turbidity exceedances. In accordance to the short term water quality modifications dated August 29, 2006 and September 6, 2006, appropriate mitigation in the form of fish habitat enhancement such as Large Woody Debris (LWD) and/or riparian plantings shall be required and will be determined after a draft mitigation plan has been submitted to WDFW and WDOE 60 days after completion of all in-water work.
4. The dike removal activities shall occur in an area contained by the coffer dam.
5. Both inner and outer coffer dams shall be constructed of flexible intermediate bulk containers (FIBCs).
6. Round river rock shall be placed along the outside of the outer cofferdam as needed to prevent the river from scouring the sediments under the coffer dam. No rip-rap shall be used.
7. Streambed disturbance shall be limited to the minimum necessary to achieve the provisions of the water right issued by Washington Department of Ecology.

Issue Date: September 12, 2006

Control Number: 104012-3

Project Expiration Date: September 15, 2006

FPA/Public Notice #: N/A

8. Dike materials and temporary access road materials shall be disposed according to DOE protocols.

9. The dike removal shall not cause adult and/or juvenile fish stranding during the project.

10. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened with 1/8-inch mesh to prevent fish from entering the system. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment to juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.

11. Equipment used for this project shall be free of external petroleum-based products while working around the stream. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities along the stream.

12. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills and exceedance of any water quality criteria as per RCW 90.48), immediate notification shall be made to the Washington Department of Ecology at 1-800-258-5990, and to the Area Habitat Biologist listed below.

13. Erosion control methods shall be used to prevent silt-laden water from entering the stream.

14. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.

15. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

16. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

17. Alteration or disturbance of the bank and bank vegetation shall be limited to that necessary to construct the project. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means. Within one year of project completion, the banks, including riprap areas, shall be revegetated with native or other approved woody species. Vegetative cuttings shall be planted at a maximum interval of three feet (on center) and maintained as necessary for three years to ensure 80 percent survival or as per the Nationwide 38 USCOE permit.

18. Bank protection material shall not constrict the flow and cause any appreciable increase (not to exceed 0.2 feet) in backwater elevation (calculated at the 100-year flood) or channel-wide scour,

Issue Date: September 12, 2006

Control Number:

104012-3

Project Expiration Date: September 15, 2006

FPA/Public Notice #:

N/A

and shall be aligned to cause the least effect on the hydraulics of the stream.

19. The permittee shall capture and safely move food fish, game fish, and other fish life from the job site. The permittee shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the project site. The permittee may request the Washington Department of Fish and Wildlife assist in capturing and safely moving fish life from the job site to free-flowing water, and assistance may be granted if personnel are available.

PROJECT LOCATIONS

Location #1 BNSF

WORK START: September 12, 2006				WORK END: September 15, 2006		
WRIA: 07.0012		Waterbody: Snohomish River			Tributary to: Puget Sound	
1/4 SEC: S 1/2	Section: 26	Township: 26 N	Range: 11 E	Latitude: N 47.71040	Longitude: W 121.36138	County: King
Location #1 Driving Directions The project is actually on the SOUTH Fork Skykomish (07.0012) River at the Town of Skykomish.						

NOTES

Old hpa #100906 withdrawn.

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued pursuant to RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.141 are subject to additional restrictions, conditions or revocation if the Department of Fish and Wildlife determines that new biological or physical information indicates the need for such action. The

Issue Date: September 12, 2006
Project Expiration Date: September 15, 2006

Control Number: 104012-3
FPA/Public Notice #: N/A

person(s) to whom this Hydraulic Project Approval is issued has the right pursuant to Chapter 34.04 RCW to appeal such decisions. All agricultural irrigation, stock watering or bank stabilization Hydraulic Project Approvals issued pursuant to RCW 77.55.021 may be modified by the Department of Fish and Wildlife due to changed conditions after consultation with the person(s) to whom this Hydraulic Project Approval is issued: PROVIDED HOWEVER, that such modifications shall be subject to appeal to the Hydraulic Appeals Board established in RCW 77.55.301.

APPEALS INFORMATION

If you wish to appeal the issuance or denial of, or conditions provided in a Hydraulic Project Approval, there are informal and formal appeal processes available.

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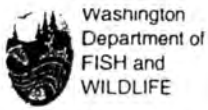
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HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

North Puget Sound
16018 Mill Creek Boulevard
Mill Creek, WA 98012-1296
(425) 775-1311

Issue Date: September 12, 2006

Control Number: 104012-3

Project Expiration Date: September 15, 2006

FPA/Public Notice #: N/A

Lacey, Washington 98504; telephone 360/459-6327.

E. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS results in forfeiture of all appeal rights. If there is no timely request for an appeal, the department action shall be final and unappealable.

ENFORCEMENT: Sergeant Chandler (34) P1

Habitat Biologist
Bill Mavros

mavrobm@dfw.wa.gov
425-649-1349

for Director
WDFW

CC:

Nationwide 38 from Department of Army



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

JUN 26 2006

Regulatory Branch

Mr. Bruce Sheppard
Burlington Northern Santa Fe Railway Company
2454 Occidental Street, Suite 1A
Seattle, Washington 98134-1451

Reference: 200500328
Burlington Northern
Santa Fe Railway

Dear Mr. Sheppard:

Our regulatory program utilizes a series of nationwide permits (NWP) to authorize specific categories of work that have minimal impact on the aquatic environment when conducted in accordance with the permit conditions (*Federal Register*, January 15, 2002, Vol. 67, No. 10). Based on the information you provided to us, NWP 38, *Cleanup of Hazardous and Toxic Waste*, authorizes your proposal to excavate/dredge contaminated portions of the South Fork Skykomish River and adjacent shorelines waterward of the line of ordinary high water, as depicted on the enclosed drawings dated January 11, 2006. The project would occur in the South Fork Skykomish River at Skykomish, King County, Washington.

In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the enclosed *Nationwide Permit 38, Terms and Conditions* and the following special conditions that we have added to ensure that this project would have no more than a minimal adverse impact on the aquatic environment:

- a. You must implement and abide by the Endangered Species Act (ESA) requirements and/or agreements set forth in the *Skykomish Levee Remediation Project, Biological Evaluation*, dated March 1, 2005, and the addendum dated January 6, 2006, in their entirety. The National Marine Fisheries Service (NMFS) concurred with a finding of "may affect, not likely to adversely affect" based on this document on June 5, 2006, (NMFS Reference Number 2006/00264). The U.S. Fish and Wildlife Service (USFWS) concurred with a finding of "may affect, not likely to adversely affect" based on this document on May 24, 2006, (USFWS Reference Number 1-3-06-1-0165). Both agencies will be informed of this permit issuance. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your U.S. Army Corps of Engineers permit. The USFWS/NMFS is the appropriate authority to determine compliance with ESA.

b. In order to protect Chinook salmon and bull trout, the permittee may conduct the authorized activities from July 1 through September 15 in any year this permit is valid. The permittee shall not conduct work authorized by this permit from September 16 through June 30 in any year this permit is valid.

c. A professional archaeologist must be on-site to monitor for the presence of archaeological resources during excavation of sediments from the existing and proposed levee. If human remains or archaeological resources are encountered during construction, all ground disturbing activities shall cease in the immediate area and the permittee shall immediately (within one business day of discovery) notify the U.S. Army Corps of Engineers (Corps). The permittee shall perform any work required by the Corps in accordance with Section 106 of the National Historic Preservation Act and Corps regulations.

In order for this NWP authorization to be valid, the Washington State Department of Ecology (Ecology) must have issued or waived Section 401 Water Quality Certification (WQC) and, for Washington's 15 coastal counties, concurred with or waived a Coastal Zone Management (CZM) consistency determination. Based on our review of the proposed work, the U.S. Army Corps of Engineers (Corps) has determined that the proposed work will be in compliance with Ecology's WQC and CZM consistency determination concurrence requirements for this NWP. Therefore, no further coordination with Ecology is required.

We have reviewed your project pursuant to the requirements of the Endangered Species Act (ESA). After consulting with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service, we have determined that this project meets the requirements of NWP National General Condition 11 provided you comply with special conditions "a" and "b" listed above.

The Corps has also reviewed this project pursuant to the requirements of 33 CFR Part 325, Appendix C and determined that it satisfies the requirements of NWP National General Condition 12 and Section 106 of the National Historic Preservation Act provided that you comply with special condition "c" listed above.

Our verification of this NWP is valid for 2 years from the date of this letter unless the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2007. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit.

If this project complies with all terms and conditions of this NWP, you will need no further authorization from us. However, you must still obtain all State and local permits that apply to

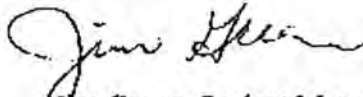
your project. Also, we remind you that failure to comply with all terms and conditions of this NWP verification invalidates your authorization and could result in a violation of Section 404 of the Clean Water Act.

Upon completing the authorized work, please fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form to the address indicated on the form. Your signature on this form is our assurance that the completed work and any required mitigation was conducted in accordance with the terms and conditions of this NWP.

Thank you for your cooperation during the permit process. Your efforts help us protect our nation's aquatic resources, including wetlands. We are interested in your thoughts and opinions concerning your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website at: www.nws.usace.army.mil click on Regulatory – Regulatory/Permits.

A copy of this letter with enclosures will be furnished to Mr. Dan Berlin, The RETEC Group, Inc., 1011 SW Klickitat Way, Suite 207, Seattle, Washington 98134-162. If you have any questions about this letter or our regulatory program, please contact me at (206) 764-6906 or via email at James.D.Green@usace.army.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Green", is written over a horizontal line.

Jim Green, Project Manager
South Application Review Section



US Army Corps
of Engineers
Seattle District

NATIONWIDE PERMIT 38

Terms and Conditions

Effective Date: March 18, 2002



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- A. Description of Authorized Activities – page 1
 - B. Corps Regional Specific Conditions for this NWP – page 1
 - C. EPA, Puyallup Tribe and Chehalis Tribe WQC Conditions for this NWP – page 2
 - D. State WQC Conditions for this NWP – page 2
 - E. State CZM Consistency Determination Conditions for this NWP – page 2
 - F. Corps National General Conditions for all NWP's – page 2
 - G. Corps Regional General Conditions for all NWP's – page 9
 - H. Additional Limitations on the Use of NWP's – page 11
 - I. Further Information – page 11
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In addition to any special condition that may be required on a case-by-case basis by the District Engineer, the following terms and conditions must be met, as applicable, for a Nationwide Permit 38 authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

Cleanup of Hazardous and Toxic Waste. Specific activities required to effect the containment, stabilization, or removal of hazardous or toxic waste materials that are performed, ordered, or sponsored by a government agency with established legal or regulatory authority provided the permittee notifies the District Engineer in accordance with the "Notification" General Condition. For discharges in special aquatic sites, including wetlands, the notification must also include a delineation of affected special aquatic sites, including wetlands. Court ordered remedial action plans or related settlements are also authorized by this NWP. This NWP does not authorize the establishment of new disposal sites or the expansion of existing sites used for the disposal of hazardous or toxic waste. Activities undertaken entirely on a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) site by authority of CERCLA as approved or required by EPA, are not required to obtain permits under Section 404 of the CWA or Section 10 of the Rivers and Harbors Act. (Sections 10 and 404)

B. CORPS REGIONAL CONDITIONS FOR THIS NWP

None.

C. EPA, PUYALLUP TRIBE AND CHEHALIS TRIBE WQC CONDITIONS FOR THIS NWP

EPA, Puyallup Tribe and Chehalis Tribe water quality certification (WQC) has been denied without prejudice. An individual WQC is required for all Section 404 activities.

D. State WQC Conditions for this NWP

Partially denied with out prejudice. An individual 401 Certificate is required unless authorized through a cleanup order from Ecology or EPA. An individual 401 Certification is required for all other activities.

E. STATE CZM CONSISTENCY DETERMINATION CONDITIONS FOR THIS NWP

The Coastal Zone Management (CZM) Consistency Determination has been partially denied without prejudice for this NWP. An individual CZM Consistency Response must be obtained for projects requiring individual 401 Certification and located within counties in the coastal zone.

F. CORPS NATIONAL GENERAL CONDITIONS FOR ALL NWPs

1. **Navigation.** No activity may cause more than a minimal adverse effect on navigation.
2. **Proper Maintenance.** Any structure or fill authorized shall be properly maintained, including maintenance to ensure public safety.
3. **Soil Erosion and Sediment Controls.** Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.
4. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life-cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.
5. **Equipment.** Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.
6. **Regional and Case-By-Case Conditions.** The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(c)) and with any case specific conditions added by the Corps or by the state or tribe in its Section 401 Water Quality Certification and Coastal Zone Management Act consistency determination.
7. **Wild and Scenic Rivers.** No activity may occur in a component of the National Wild and Scenic River System; or in a river officially designated by Congress as a "study river" for possible inclusion in the system, while the river is in an official study status; unless the appropriate Federal agency, with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation, or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).
8. **Tribal Rights.** No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

9. Water Quality.

(a) In certain states and tribal lands an individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)).

(b) For NWP's 12, 14, 17, 18, 32, 39, 40, 42, 43, and 44, where the state or tribal 401 certification (either generically or individually) does not require or approve water quality management measures, the permittee must provide water quality management measures that will ensure that the authorized work does not result in more than minimal degradation of water quality (or the Corps determines that compliance with state or local standards, where applicable, will ensure no more than minimal adverse effect on water quality). An important component of water quality management includes stormwater management that minimizes degradation of the downstream aquatic system, including water quality (refer to General Condition 21 for stormwater management requirements). Another important component of water quality management is the establishment and maintenance of vegetated buffers next to open waters, including streams (refer to General Condition 19 for vegetated buffer requirements for the NWP's). This condition is only applicable to projects that have the potential to affect water quality. While appropriate measures must be taken, in most cases it is not necessary to conduct detailed studies to identify such measures or to require monitoring.

10. **Coastal Zone Management.** In certain states, an individual state coastal zone management consistency concurrence must be obtained or waived (see 33 CFR 330.4(d)).

11. Endangered Species.

(a) No activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will destroy or adversely modify the critical habitat of such species. Non-federal permittees shall notify the District Engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or is located in the designated critical habitat and shall not begin work on the activity until notified by the District Engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that may affect Federally-listed endangered or threatened species or designated critical habitat, the notification must include the name(s) of the endangered or threatened species that may be affected by the proposed work or that utilize the designated critical habitat that may be affected by the proposed work. As a result of formal or informal consultation with the FWS or NMFS the District Engineer may add species-specific regional endangered species conditions to the NWP's.

(b) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the USFWS or the NMFS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS and NMFS or their world wide web pages at <http://www.fws.gov/endsp/endsp.html> and <http://www.nmfs.noaa.gov/prof/res/overview/es.html> respectively.

12. **Historic Properties.** No activity which may affect historic properties listed, or eligible for listing, in the National Register of Historic Places is authorized, until the District Engineer has complied with the provisions of 33 CFR part 325, Appendix C. The prospective permittee must notify the District Engineer if the authorized activity may affect any historic properties listed, determined to be eligible, or which the prospective permittee has reason to believe may be eligible for listing on the National Register of Historic Places, and shall not begin the activity until notified by the District Engineer that the requirements of the National Historic Preservation Act have been satisfied and that the activity is authorized. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places (see 33 CFR 330.4(g)). For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the notification must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

13. Notification.

(a) **Timing:** Where required by the terms of the NWP, the prospective permittee must notify the District Engineer with a preconstruction notification (PCN) as early as possible. The District Engineer must determine if the notification is complete within 30 days of the date of receipt and can request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the District Engineer will notify the prospective permittee that the notification is still incomplete and the PCN review process will not commence until all of the requested information has been received by the District Engineer. The prospective permittee shall not begin the activity:

(1) Until notified in writing by the District Engineer that the activity may proceed under the NWP with any special conditions imposed by the District or Division Engineer; or

(2) If notified in writing by the District or Division Engineer that an Individual Permit is required; or

(3) Unless 45 days have passed from the District Engineer's receipt of the complete notification and the prospective permittee has not received written notice from the District or Division Engineer. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) **Contents of Notification:** The notification must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) Brief description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), Regional General Permit(s), or Individual Permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP (Sketches usually clarify the project and when provided result in a quicker decision.);

(4) For NWPs 7, 12, 14, 18, 21, 34, 38, 39, 40, 41, 42, and 43, the PCN must also include a delineation of affected special aquatic sites, including wetlands, vegetated shallows (e.g., submerged aquatic vegetation, seagrass beds), and riffle and pool complexes (see paragraph 13(f));

(5) For NWP 7 (Outfall Structures and Maintenance), the PCN must include information regarding the original design capacities and configurations of those areas of the facility where maintenance dredging or excavation is proposed;

(6) For NWP 14 (Linear Transportation Projects), the PCN must include a compensatory mitigation proposal to offset permanent losses of waters of the US and a statement describing how temporary losses of waters of the US will be minimized to the maximum extent practicable;

(7) For NWP 21 (Surface Coal Mining Activities), the PCN must include an Office of Surface Mining (OSM) or state-approved mitigation plan, if applicable. To be authorized by this NWP, the District Engineer must determine that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are minimal both individually and cumulatively and must notify the project sponsor of this determination in writing;

(8) For NWP 27 (Stream and Wetland Restoration Activities), the PCN must include documentation of the prior condition of the site that will be reverted by the permittee;

(9) For NWP 29 (Single-Family Housing), the PCN must also include:

(i) Any past use of this NWP by the Individual Permittee and/or the permittee's spouse;

(ii) A statement that the single-family housing activity is for a personal residence of the permittee;

(iii) A description of the entire parcel, including its size, and a delineation of wetlands. For the purpose of this NWP, parcels of land measuring 1/4-acre or less will not require a formal on-site delineation. However, the applicant shall provide an indication of where the wetlands are and the amount of wetlands that exists on the property. For parcels greater than 1/4-acre in size, formal wetland delineation must be prepared in accordance with the current method required by the Corps. (See paragraph 13(f));

(iv) A written description of all land (including, if available, legal descriptions) owned by the prospective permittee and/or the prospective permittee's spouse, within a one mile radius of the parcel, in any form of ownership (including any land owned as a partner, corporation, joint tenant, co-tenant, or as a tenant-by-the-entirety) and any land on which a purchase and sale agreement or other contract for sale or purchase has been executed;

(10) For NWP 31 (Maintenance of Existing Flood Control Facilities), the prospective permittee must either notify the District Engineer with a PCN prior to each maintenance activity or submit a five year (or less) maintenance plan. In addition, the PCN must include all of the following:

(i) Sufficient baseline information identifying the approved channel depths and configurations and existing facilities. Minor deviations are authorized, provided the approved flood control protection or drainage is not increased;

(ii) A delineation of any affected special aquatic sites, including wetlands; and,

(iii) Location of the dredged material disposal site;

(11) For NWP 33 (Temporary Construction, Access, and Dewatering), the PCN must also include a restoration plan of reasonable measures to avoid and minimize adverse effects to aquatic resources;

(12) For NWPs 39, 43 and 44, the PCN must also include a written statement to the District Engineer explaining how avoidance and minimization for losses of waters of the US were achieved on the project site;

(13) For NWP 39 and NWP 42, the PCN must include a compensatory mitigation proposal to offset losses of waters of the US or justification explaining why compensatory mitigation should not be required. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;

(14) For NWP 40 (Agricultural Activities), the PCN must include a compensatory mitigation proposal to offset losses of waters of the US. This NWP does not authorize the relocation of greater than 300 linear-feet of existing serviceable drainage ditches constructed in non-tidal streams unless, for drainage ditches constructed in intermittent non-tidal streams, the District Engineer waives this criterion in writing, and the District Engineer has determined that the project complies with all terms and conditions of this NWP, and that any adverse impacts of the project on the aquatic environment are minimal, both individually and cumulatively;

(15) For NWP 43 (Stormwater Management Facilities), the PCN must include, for the construction of new stormwater management facilities, a maintenance plan (in accordance with state and local requirements, if applicable) and a compensatory mitigation proposal to offset losses of waters of the US. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;

(16) For NWP 44 (Mining Activities), the PCN must include a description of all waters of the US adversely affected by the project, a description of measures taken to minimize adverse effects to waters of the US, a description of measures taken to comply with the criteria of the NWP, and a reclamation plan (for all aggregate mining activities in isolated waters and non-tidal wetlands adjacent to headwaters and any hard rock/mineral mining activities);

(17) For activities that may adversely affect Federally-listed endangered or threatened species, the PCN must include the name(s) of those endangered or threatened species that may be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work; and

(18) For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

(c) **Form of Notification:** The standard Individual Permit application form (Form ENG 4345) may be used as the notification but must clearly indicate that it is a PCN and must include all of the information required in (b) (1)-(18) of General Condition 13. A letter containing the requisite information may also be used.

(d) **District Engineer's Decision:** In reviewing the PCN for the proposed activity, the District Engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. The prospective permittee may submit a proposed mitigation plan with the PCN to expedite the process. The District Engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. If the District Engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the District Engineer will notify the permittee and include any conditions the District Engineer deems necessary. The District Engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee is required to submit a compensatory mitigation proposal with the PCN, the proposal may be either conceptual or detailed. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the District Engineer will expeditiously review the proposed compensatory mitigation plan. The District Engineer must review the plan within 45 days of receiving a complete PCN and determine whether the conceptual or specific proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP. If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then the District Engineer will notify the applicant either: (1) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an Individual Permit; (2) that the project is authorized under the NWP subject to the applicant's submission of a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level; or (3) that the project is authorized under the NWP with specific modifications or conditions. Where the District Engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period. The authorization will include the necessary conceptual or specific mitigation or a requirement that the applicant submit a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level. When conceptual mitigation is included, or a mitigation plan is required under item (2) above, no work in waters of the US will occur until the District Engineer has approved a specific mitigation plan.

(e) **Agency Coordination:** The District Engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. For activities requiring notification to the District Engineer that result in the loss of greater than 1/2-acre of waters of the US, the District Engineer will provide immediately (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy to the appropriate Federal or state offices (USFWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the District Engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the District Engineer will wait an additional 15 calendar days before making a decision on the notification. The District Engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The District Engineer will indicate in the administrative record associated with each notification that the resource agencies' concerns were considered. As required by section 305(b)(4)(B) of the Magnuson-Stevens

Fishery Conservation and Management Act, the District Engineer will provide a response to NMFS within 30 days of receipt of any Essential Fish Habitat conservation recommendations. Applicants are encouraged to provide the Corps multiple copies of notifications to expedite agency notification.

(f) **Wetland Delineations:** Wetland delineations must be prepared in accordance with the current method required by the Corps (For NWP 29 see paragraph (b)(9)(iii) for parcels less than 1/4-acre in size). The permittee may ask the Corps to delineate the special aquatic site. There may be some delay if the Corps does the delineation. Furthermore, the 45-day period will not start until the wetland delineation has been completed and submitted to the Corps, where appropriate.

14. Compliance Certification. Every permittee who has received NWP verification from the Corps will submit a signed certification regarding the completed work and any required mitigation. The certification will be forwarded by the Corps with the authorization letter and will include:

- (a) A statement that the authorized work was done in accordance with the Corps authorization, including any general or specific conditions;
- (b) A statement that any required mitigation was completed in accordance with the permit conditions; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

15. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the US authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit (e.g. if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the US for the total project cannot exceed 1/3-acre).

16. Water Supply Intakes. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in the proximity of a public water supply intake except where the activity is for repair of the public water supply intake structures or adjacent bank stabilization.

17. Shellfish Beds. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4.

18. Suitable Material. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may consist of unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.) and material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the CWA).

19. Mitigation. The District Engineer will consider the factors discussed below when determining the acceptability of appropriate and practicable mitigation necessary to offset adverse effects on the aquatic environment that are more than minimal.

- (a) The project must be designed and constructed to avoid and minimize adverse effects to waters of the US to the maximum extent practicable at the project site (i.e., on site).
- (b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.
- (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland impacts requiring a PCN, unless the District Engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. Consistent with National policy, the District Engineer will establish a preference for restoration of wetlands as compensatory mitigation, with preservation used only in exceptional circumstances.

(d) Compensatory mitigation (i.e., replacement or substitution of aquatic resources for those impacted) will not be used to increase the acreage losses allowed by the acreage limits of some of the NWP's. For example, 1/4-acre of wetlands cannot be created to change a 3/4-acre loss of wetlands to a 1/2-acre loss associated with NWP 39 verification. However, 1/2-acre of created wetlands can be used to reduce the impacts of a 1/2-acre loss of wetlands to the minimum impact level in order to meet the minimal impact requirement associated with NWP's.

(e) To be practicable, the mitigation must be available and capable of being done considering costs, existing technology, and logistics in light of the overall project purposes. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferably in the same watershed.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., easements, deed restrictions) of vegetated buffers to open waters. In many cases, vegetated buffers will be the only compensatory mitigation required. Vegetated buffers should consist of native species. The width of the vegetated buffers required will address documented water quality or aquatic habitat loss concerns. Normally, the vegetated buffer will be 25 to 50 feet wide on each side of the stream, but the District Engineers may require slightly wider vegetated buffers to address documented water quality or habitat loss concerns. Where both wetlands and open waters exist on the project site, the Corps will determine the appropriate compensatory mitigation (e.g., stream buffers or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where vegetated buffers are determined to be the most appropriate form of compensatory mitigation, the District Engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland impacts.

(g) Compensatory mitigation proposals submitted with the "notification" may be either conceptual or detailed. If conceptual plans are approved under the verification, then the Corps will condition the verification to require detailed plans be submitted and approved by the Corps prior to construction of the authorized activity in waters of the US.

(h) Permittees may propose the use of mitigation banks, in-lieu fee arrangements or separate activity-specific compensatory mitigation. In all cases that require compensatory mitigation, the mitigation provisions will specify the party responsible for accomplishing and/or complying with the mitigation plan.

20. Spawning Areas. Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., excavate, fill, or smother downstream by substantial turbidity) of an important spawning area are not authorized.

21. Management of Water Flows. To the maximum extent practicable, the activity must be designed to maintain preconstruction downstream flow conditions (e.g., location, capacity, and flow rates). Furthermore, the activity must not permanently restrict or impede the passage of normal or expected high flows (unless the primary purpose of the fill is to impound waters) and the structure or discharge of dredged or fill material must withstand expected high flows. The activity must, to the maximum extent practicable, provide for retaining excess flows from the site, provide for maintaining surface flow rates from the site similar to preconstruction conditions, and provide for not increasing water flows from the project site, relocating water, or redirecting water flow beyond preconstruction conditions. Stream channelizing will be reduced to the minimal amount necessary, and the activity must, to the maximum extent practicable, reduce adverse effects such as flooding or erosion downstream and upstream of the project site, unless the activity is part of a larger system designed to manage water flows. In most cases, it will not be a requirement to conduct detailed studies and monitoring of water flow. This condition is only applicable to projects that have the potential to affect waterflows. While appropriate measures must be taken, it is not necessary to conduct detailed studies to identify such measures or require monitoring to ensure their effectiveness. Normally, the Corps will defer to state and local authorities regarding management of water flow.

22. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to the acceleration of the passage of water, and/or the restricting its flow shall be minimized to the maximum extent practicable. This includes structures and work in navigable waters of the US, or discharges of dredged or fill material.

23. **Waterfowl Breeding Areas.** Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, into breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

24. **Removal of Temporary Fills.** Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

25. **Designated Critical Resource Waters.** Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, National Wild and Scenic Rivers, critical habitat for Federally listed threatened and endangered species, coral reefs, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the District Engineer after notice and opportunity for public comment. The District Engineer may also designate additional critical resource waters after notice and opportunity for comment.

(a) Except as noted below, discharges of dredged or fill material into waters of the US are not authorized by NWP's 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, and 44 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. Discharges of dredged or fill materials into waters of the US may be authorized by the above NWP's in National Wild and Scenic Rivers if the activity complies with General Condition 7. Further, such discharges may be authorized in designated critical habitat for Federally listed threatened or endangered species if the activity complies with General Condition 11 and the USFWS or the NMFS has concurred in a determination of compliance with this condition.

(h) For NWP's 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with General Condition 13, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The District Engineer may authorize activities under these NWP's only after it is determined that the impacts to the critical resource waters will be no more than minimal.

26. **Fills Within 100-Year Floodplains.** For purposes of this General Condition, 100-year floodplains will be identified through the existing Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps or FEMA-approved local floodplain maps.

(a) **Discharges in Floodplain; Below Headwaters.** Discharges of dredged or fill material into waters of the US within the mapped 100-year floodplain, below headwaters (i.e., 5 cfs), resulting in permanent above-grade fills, are not authorized by NWP's 39, 40, 42, 43, and 44.

(b) **Discharges in Floodway; Above Headwaters.** Discharges of dredged or fill material into waters of the US within the FEMA or locally mapped floodway, resulting in permanent above-grade fills, are not authorized by NWP's 39, 40, 42, and 44.

(c) The permittee must comply with any applicable FEMA-approved state or local floodplain management requirements.

27. **Construction Period.** For activities that have not been verified by the Corps and the project was commenced or under contract to commence by the expiration date of the NWP (or modification or revocation date), the work must be completed within 12-months after such date (including any modification that affects the project). For activities that have been verified and the project was commenced or under contract to commence within the verification period, the work must be completed by the date determined by the Corps. For projects that have been verified by the Corps, an extension of a Corps approved completion date maybe requested. This request must be submitted at least one month before the previously approved completion date.

G. CORPS REGIONAL GENERAL CONDITIONS FOR ALL NWP's

1. **Mature Forested and Bog and Bog-like Wetlands.** The use of NWP's is specifically prohibited in mature forested wetlands or bog and bog-like wetlands or just these components of a wetland system (as defined in the Definition section of this Public Notice), except for projects provided coverage under the following NWP's:

- NWP 3(i,ii) - Maintenance
- NWP 20 - Oil Spill Cleanup
- NWP 32 - Completed Enforcement Actions
- NWP 38 - Cleanup of Hazardous and Toxic Waste
- NWP 40(a) - USDA program participant

NOTE: NWP regulations do not allow the regional conditioning of NWP 40(a).

2. **Access.** You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being, or has been, accomplished in accordance with the terms and conditions of your permit.

3. **Commencement Bay.** An individual permit is required in the Commencement Bay Study Area (CBSA) for activities which would have qualified for the following NWPs:

- NWP 12 - Utility Line Activities (substations and access roads)
- NWP 13 - Bank Stabilization
- NWP 14 - Linear Transportation Crossings
- NWP 23 - Approved Categorical Exclusions
- NWP 29 - Single-Family Housing
- NWP 39 - Residential, Commercial, and Institutional Developments
- NWP 40 - Agricultural Activities
- NWP 41 - Reshaping Existing Drainage Ditches
- NWP 42 - Recreational Facilities
- NWP 43 - Stormwater Management Facilities

The CBSA is located near the southern end of Puget Sound's main basin at Tacoma, Pierce County, Washington. The CBSA extends from Brown's Point around the bay to Point Defiance and includes the commercial waterways, wetlands, and any other jurisdictional waters. From Point Defiance, the line runs southeast to State Route 7 (Pacific Avenue), then south to the centerline of I-5; then east (northbound lanes) along I-5 to the Puyallup River. The boundary extends 200 feet on either side of the Puyallup River southeast to the Clark Creek Road (Melroy) Bridge. From the Puyallup River, the boundary extends east along I-5 to 70th Avenue E. The line then returns to Brown's Point to the northwest, following the 100-foot contour elevation above sea level located east of Hylebos Creek and Marine View Drive.

4. **Mill Creek Special Area Management Plan (SAMP).** Within the boundaries of the (SAMP), the following NWPs can be used only in those areas designated as "Developable Wetlands":

- NWP 14 - Linear Transportation Crossings
- NWP 23 - Approved Categorical Exclusions
- NWP 29 - Single-Family Housing
- NWP 33 - Temporary Construction, Access and Dewatering
- NWP 39 - Residential, Commercial, and Institutional Developments
- NWP 40 - Agricultural Activities
- NWP 41 - Reshaping Existing Drainage Ditches
- NWP 42 - Recreational Facilities
- NWP 43 - Stormwater Management Facilities

Until the SAMP is approved, the users of those NWPs listed above (except NWP 40a.) must notify the District Engineer in accordance with General Condition 13 for any acreage or volume proposed. Once the SAMP is approved, the "Notification" limits will be as specified in the individual NWPs.

Mitigation requirements for these projects must either be onsite or within the areas designated as "Preferred Mitigation Sites". Mitigation plans must comply with the requirements found within the Mill Creek Special Area Management Plan, King County, Washington, dated April 2000.

An individual permit is required for all proposals in "Developable Wetlands" that would have qualified for NWPs other than those listed above.

NWP 27, Stream Restoration and Enhancement Activities, can be used within the SAMP, but, must comply with the requirements found within the Mill Creek Special Area Management Plan, King County, Washington.

The Mill Creek SAMP applies to all areas and tributaries drained by Mill Creek (Auburn), Mullen Slough, Midway Creek, Auburn Creek, and the area bounded by 4th Street Northeast in Auburn on the south, and the Ordinary High Water mark of the Green River on the east and north.

5. Prohibited Work Times for Bald Eagle Protection. For compliance with National General Condition 11, the following construction activity prohibitions apply to protect bald eagles, listed as threatened under the Endangered Species Act:

(a) No construction activity authorized under a NWP shall occur within 1/4 mile of an occupied bald eagle nest, nocturnal roost site, or wintering concentration area, within the following seasonal work prohibition times.

(b) No construction activity authorized under a NWP shall occur within 1/2 mile BY LINE OF SIGHT of an occupied bald eagle nest or nocturnal roost site, within the following seasonal work prohibition times:

Work prohibition times:

- (1) Nesting between January 1 and August 15 each year.
- (2) Wintering areas between November 1 and March 31 each year.

Exceptions to these prohibited work times can be made by request to the Corps and approved by the U.S. Fish and Wildlife Service (USFWS).

Contact the USFWS to determine if a bald eagle nest, nocturnal roost, or wintering concentration occurs near your proposed project:

West of Cascades: Olympia Office - (360) 753-9440

East of Cascades: Ephrata - (509) 754-8580 or Spokane - (509) 893-8002

Mainstem of the Columbia River downstream from McNary Dam: Portland - (503) 231-6179

H. ADDITIONAL LIMITATIONS ON THE USE OF NWPs

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other Federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.
6. If future operations by the United States require the removal, relocation, or other alteration of the work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, you will be required, upon due notice from the U. S Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

I. FURTHER INFORMATION

Further information about the U.S. Army Corps of Engineers regulatory program, including nationwide permits, may also be accessed on our Internet page: <http://www.nws.usace.army.mil> (select "Regulatory/Permits").

**Modification of NPDES Permit No. WA-003212-3 from
Department of Ecology**



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
TTY 711 or 800-833-6388 (For the Speech or Hearing Impaired)

August 15, 2006

CERTIFIED MAIL

7005 1820 0000 6708 0646

Mr. Bruce Sheppard
BNSF Railway Company
2454 Occidental Avenue South
Suite 1A
Seattle, WA 98134-1451

Dear Mr. Sheppard:

Re: Modification of NPDES Permit No. WA-003212-3
BNSF Skykomish Remediation Project
Expiration Date: May 4, 2011

The permit issued for your facility on May 4, 2006 is hereby modified as of this date in the following particulars:

- Clarified the language in S1. B of the permit;
- Added a new section S1.I, Compliance with Standards in the permit;
- Changed the title of S3.E to read Noncompliance Notification, and updated in standard language in that section;
- Replaced the language in S5, Chitosan Dosage Rate and Operation, to allow flexibility to choose among two approved chitosan products to use;
- Removed the words "or discharge" from the end of the second sentence in the first paragraph of S9, Stormwater Pollution Prevention Plan.

You have the right to appeal this permit modification within thirty (30) days upon receipt of this document. Pursuant to chapter 43.21B RCW, your appeal must be filed with the Pollution Control Hearings Board, and served on the Department of Ecology, within thirty (30) days of the date of your receipt of this document.

If you choose to appeal this action or decision, your notice of appeal must contain: (1) A copy of the permit you are appealing, and (2) A copy of the application for the permit.

Your appeal must be filed with:

The Pollution Control Hearings Board
4224 - 6th Avenue SE, Rowe Six, Bldg. 2
P.O. Box 40903
Lacey, Washington 98504-0903

Page 1 of 34
Permit No. WA-003212-3
Issuance Date: May 4, 2006
Effective Date: June 1, 2006
Expiration Date: May 4, 2011
Modification Date: August 15, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT No. WA-003212-3

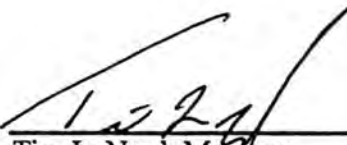
State of Washington
DEPARTMENT OF ECOLOGY
Olympia, Washington 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

BNSF RAILWAY COMPANY
2454 Occidental Avenue South, Suite 1A
Seattle, WA 98134

<u>Facility Location:</u> BNSF Skykomish Cleanup Site South Bank South Fork of the Skykomish River Skykomish, WA	<u>Receiving Water:</u> South Fork of the Skykomish River
<u>Water Body I.D. No.:</u> 1215779478143	<u>Discharge Location:</u> Latitude: 47° 42' 37" N Longitude: 121° 21' 44" W
<u>Industry Type:</u> Contaminated Soil Remediation	

is authorized to discharge in accordance with the Special and General Conditions which follow.



Tim L. Nord, Manager
Land and Aquatic Lands Cleanup Section
Toxics Cleanup Program
Washington State Department of Ecology

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SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

A. Authorized Discharges

This permit authorizes the discharge of treated stormwater and dewatering water associated with cleanup activities, to the South Fork of the Skykomish River from the BNSF Railway Company soil remediation project.

B. Discharge Prohibitions

Discharges of industrial stormwater and dewatering water including stormwater runoff from sand and gravel stockpiles, leachate from stockpiles of contaminated soils, and any water resulting from soil remediation activities, to the former and existing Maloney Creek, are prohibited.

Discharge of process wastewater, and domestic wastewater to surface water and ground water is prohibited. Prohibited process wastewater discharges include, but are not limited to: truck wash water, tire bath waste water, wheel wash water, and equipment wash water, and chemical wastes.

Visible track-out on public roads is prohibited.

This permit does not authorize illicit discharges, including spills of oils or hazardous substances, nor does it relieve entities from obligations under state and federal laws and regulations pertaining to those discharges.

C. Industrial Stormwater and Construction Dewatering Discharges Associated With Cleanup Zones (Figure 3)

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit.

The discharge of any of the following pollutants more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to discharge excavation dewatering water and industrial stormwater resulting from contaminated soil and sediment remediation to the South Fork of the Skykomish River, subject to complying with the following limitations:

D. Contaminated Water Within the Temporary River Exclusion Wall (Cofferdam)

The Permittee shall maintain a negative hydraulic gradient between the interior of the cofferdam and the river. If an oily sheen is observed beyond the inner cofferdam, corrective measures must be implemented immediately to remedy the problem before excavation is to be continued. There shall be no oily sheen beyond the boom containment area.

E. Untreated Overflow

There shall be no untreated overflow or runoff from any excavation pits or any containment tanks on-site to surface waters of the state. When the water in an excavation pit or a containment tank reaches 90 percent storage capacity, the Permittee is required to implement a contingency plan to prevent overflow from occurring.

F. Untreated Stormwater Discharge

There shall be no untreated stormwater discharge from the excavation area to surface waters of the state.

G. Outfall Location

The Permittee shall not discharge to a dry river bed area. The discharge outfall consisting of the discharge pipe and the energy dissipation structure shall be positioned in the river such that the river flow rate is greater than the discharge flow rate.

H. Industrial Stormwater Discharges Associated With Railyard Operations

Industrial stormwater discharges associated with railyard operations (not related to cleanup activities) are regulated under the General Stormwater NPDES Permit No. S03003658 except for those cases in which contaminated water from railyard operations passes through the cleanup site.

I. Compliance With Standards

The Permittee shall comply with State of Washington Surface Water Quality Standards (Chapter 173-201A WAC), Sediment Management Standards (Chapter 173-204 WAC), Ground Water Quality Standards (Chapter 173-200 WAC), and human health-based criteria in the National Toxics Rule (Federal Register, Vol. 57, No. 246, December 22, 1992, pages 60848-60923).

When not in compliance with these standards, the Permittee shall take immediate action(s) to achieve compliance by implementing additional best management practices (BMPs) and/or improved compliance with existing BMPs, and file a noncompliance notification, as required under Condition S3.E.

Facilities that discharge either directly or indirectly by means of a stormwater conveyance system to waters listed as impaired by the State under Section 303(d) of the Clean Water Act must comply with the State's Surface Water Quality Standards.

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions affecting effluent quality.

The detection limits achieved for those analytical test methods specified in S2.A shall be lower than the effluent limits (or enforcement limits for PAH compounds) listed in S1.C of the permit.

C. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure the accuracy of the measurements is consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

D. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory register or accredited under the provisions of *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, pH, turbidity, and internal process control parameters are exempt from this requirement.

S3. REPORTING AND RECORD KEEPING REQUIREMENTS

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during each monitoring period shall be summarized, reported, and submitted on a Discharge Monitoring Report (DMR) form provided, or otherwise approved, by the Department. DMR forms shall be postmarked or received no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit. The report(s) shall be sent to the Department of Ecology Water Quality Program, 3190 - 160th Avenue SE, Bellevue, WA 98008-5452.

2. Immediately notify the Department of the failure to comply.
3. Submit a detailed, written report to the Department within five (5) days. The report shall contain a description of the noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or any resulting liability for failure to comply.

F. Other Noncompliance Reporting

The Permittee must report all instances of noncompliance, not required to be reported within 24 hours, at the time that monitoring reports for S3.A ("Reporting") are submitted. The reports must contain the information listed in paragraph E, above, ("Twenty-four Hour Notice of Noncompliance Reporting"). Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

G. Maintaining a Copy of This Permit

A copy of this permit must be kept at the facility and be made available upon request to Department of Ecology inspectors.

S4. OPERATIONS AND MAINTENANCE

The Permittee shall, at all times, properly operate and maintain all systems of treatment and control (and related appurtenances) which are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems, which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

A. Operations and Maintenance Manual

An Operations and Maintenance (O&M) Manual shall be prepared by the Permittee in accordance with WAC 173-240-150 and be submitted to the Department for approval within thirty (30) days after permit issuance date. The O&M Manual shall be reviewed by the Permittee at least annually and the Permittee shall confirm this review by letter to the Department. Substantial changes or updates to the O&M Manual shall be submitted to the Department whenever they are incorporated into the manual.

The approved Operations and Maintenance Manual shall be kept available at the permitted facility, and all operators shall follow the instructions and procedures of this manual.

B. Bypass Procedures

Bypass, which is the intentional diversion of waste streams from any portion of a treatment facility, is prohibited, and the Department may take enforcement action against a Permittee for bypass unless one of the following circumstances (1, 2, or 3) is applicable.

1. Bypass for Essential Maintenance Without the Potential to Cause Violation of Permit Limits or Conditions.

Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of this permit, or adversely impact public health as determined by the Department prior to the bypass. The Permittee shall submit prior notice, if possible, at least ten days before the date of the bypass.

2. Bypass Which is Unavoidable, Unanticipated, and Results in Noncompliance of this Permit.

This bypass is permitted only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment downtime (but not if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance), or transport of untreated wastes to another treatment facility.
 - c. The Department is properly notified of the bypass as required in Condition S3.E of this permit.
3. Bypass which is Anticipated and has the Potential to Result in Noncompliance of this Permit.

The Permittee shall notify the Department at least thirty (30) days before the planned date of bypass. The notice shall contain: (1) a description of the bypass and its cause; (2) an analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing; (3) a cost-effectiveness analysis of alternatives including comparative resource damage assessment; (4) the minimum and maximum duration of bypass under each alternative; (5) a recommendation as to the preferred alternative for conducting the bypass; (6) the projected date of

Both products contain different weight percentages of chitosan acetate. The dosage rate and the safety margin checklists for each product as referenced-above are not the same. Chitosan acetate can be employed to effectively treat stormwater turbidity up to 600 NTU without using chitosan acetate concentrations above 1.06 mg/L. Application at concentrations in excess of this level may result in toxicity in the effluent.

S6. SOLID WASTE DISPOSAL

A. Solid Waste Handling

The Permittee shall handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

B. Leachate

The Permittee shall not allow leachate from its solid waste material to enter state waters without providing all known available and reasonable methods of treatment, nor allow such leachate to cause violations of the state surface water quality standards, Chapter 173-201A WAC, or the state ground water quality standards, Chapter 173-200 WAC. The Permittee shall apply for a permit or permit modification as may be required for such discharges to state ground or surface waters.

C. Solid Waste Control Plan

The Permittee shall submit a solid waste control plan to the Department no later than July 15, 2006. This plan shall include all solid wastes with the exception of those solid wastes regulated by Chapter 173-303 WAC (Dangerous Waste Regulations). The plan shall include, at a minimum, a description, source, generation rate, and disposal methods of these solid wastes. This plan shall not be at variance with any approved local solid waste management plan. Any proposed revision or modification of the solid waste handling plan must be submitted to the Department within fourteen (14) days of adoption. The Permittee shall comply with the plan and any modifications thereof. The Permittee shall submit an update of the solid waste control plan with the application for permit renewal one hundred eighty (180) days prior to the expiration date of the permit.

S7. SPILL PLAN

At least thirty (30) days prior to the start of construction or discharge, the Permittee shall submit to the Department a spill control plan for the prevention, containment, and control of spills or unplanned discharges of: 1) oil and petroleum products, 2) materials, which when spilled, or otherwise released into the environment, are designated dangerous waste (DW) or extremely hazardous waste (EHW) by the procedures set forth in WAC 173-303-070, or 3) other materials which may become pollutants or cause pollution upon reaching state's waters. The Permittee shall review and update the spill plan, as needed, at least annually. Changes to the plan shall be sent to the Department within fourteen (14) days of adoption. The plan and any supplements shall be followed throughout the term of the permit.

5. Empty barrels shall be stored with all openings plugged, in an upright position, and at least 20 feet from storm drains.
6. The Permittee shall inspect the outfall line including the energy dissipation structure to document its integrity and continued function, daily during the operational period. If conditions allow for a photographic verification, it shall be included in the report. The report shall be made available to the Department's inspector(s) on-site.

S9. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR INDIVIDUAL CLEANUP ZONE CONSTRUCTION ACTIVITIES (Each Zone is Listed Under Background Information in the Fact Sheet)

A SWPPP for construction activity, including construction dewatering, shall be prepared, implemented, and updated to reflect current stage of construction activity. The Permittee shall submit the SWPPP to the Department at least thirty (30) days prior to the start of construction. The SWPPP for each new phase of construction shall be kept current, updated as necessary, and submitted to the Department. At a minimum, the SWPPP shall be submitted to the Department annually. The SWPPP will cover the current and next year's anticipated activities. The phased construction activities include clearing, grading, filling, earth work, excavation, and hauling activities.

A. General Requirements

1. The SWPPP and all of its modifications shall be signed in accordance with General Condition G.1.B. In addition, the SWPPP shall be stamped by a Professional Engineer certified by the State of Washington.
2. The SWPPP shall be retained on-site or within reasonable access to the site and be made available upon request.
3. The Permittee shall be responsible for the implementation of the SWPPP. The Erosion and Sediment Control Plan shall be attached to bid packages when seeking contractors to allow the contractor sufficient time and resources to plan implementation. At construction sites for which a lease, easement, or other use agreement has been obtained by the Permittee, the Permittee shall be responsible for the implementation of the SWPPP.
4. The Permittee shall implement procedures for reviewing the SWPPP with contractors and subcontractors prior to initiating construction activities. The Permittee shall implement procedures for addressing changes in plans and construction activities and resolving disagreements on the interpretation of the SWPPP.
5. The Permittee shall designate a contact person who will be available 24 hours a day to respond to emergencies, and to inquiries or directives from the Department. The contact person shall have authority over the SWPPP implementation. A qualified construction pollution control officer, as approved by Ecology, shall be established to advise on and determine compliance with the SWPPP and the applicable water quality standards. The name of the pollution control officer shall be listed in the

- a. The experimental BMP.
- b. Why the experimental BMP is being requested.
- c. Why the BMPs in the *SWMM* are not adequate.
- d. Applicable construction techniques.
- e. The characteristics of the site or sites at which use of the experimental BMP is proposed.
- f. Design criteria for the experimental BMP and the expected results.
- g. Maintenance procedures.
- h. Cost estimates.
- i. Monitoring procedures and duration.
- j. If appropriate, an approved BMP that could be used if the experimental BMP fails.

12. Chemical Treatment

- a. Chemical treatment of stormwater, other than by means of treatment with chitosan solution as authorized in this permit, must be approved in writing by Ecology.
- b. Chemicals may only be used to stabilize soils if the storm water from the chemical application area is routed to and treated by a stormwater detention pond. In addition, chemical treatment/soil stabilization shall be consistent with Ecology's Stormwater Management Manuals.
- c. Spill prevention, control, and contingencies in the SWPPP should include specifics for all chemicals used.

B. SWPPP Contents and Requirements

The SWPPP shall consist of and include provisions for the following:

1. An Erosion and Sediment Control Plan:

The Erosion and Sediment Control Plan shall describe stabilization and structural practices, both of which shall be implemented to minimize erosion and the transport of sediments.

a. Stabilization Practices

The Erosion and Sediment Control Plan shall include a description of stabilization BMPs, including site-specific scheduling of the implementation of the practices. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, commercially available soil stabilization products, and other appropriate measures. A record of the dates when major

b. Structural Practices

In addition to stabilization practices, the Erosion and Sediment Control Plan shall include a description of structural BMPs to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the Federal Clean Water Act.

The plan shall ensure that the following requirements are satisfied:

- i) Prior to leaving the site, stormwater runoff shall pass through a sediment pond or sediment trap, or other appropriate BMPs.
- ii) Properties adjacent to the project site shall be protected from sediment deposition.
- iii) Sediment ponds and traps, perimeter dikes, sediment barriers, and other BMPs intended to trap sediment on-site shall be constructed as a first step in grading. These BMPs shall be functional before other land disturbing activities take place. Earthen structures used for sediment control such as dams, dikes, and diversions shall be stabilized as soon as possible.
- iv) Properties and waterways downstream from the construction site shall be protected from erosion due to increases in volume, velocity, and peak flow of stormwater runoff from the project site. The stormwater discharge rate for the area affected by construction shall not exceed 50 percent of the predevelopment peak flow rate for the two-year, 24-hour storm.
- v) All temporary erosion and sediment control BMPs shall be removed within thirty (30) days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on-site. Disturbed soil areas resulting from removal shall be permanently stabilized.

c. Inspection and Maintenance

All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. All on-site erosion and sediment control measures shall be inspected daily when construction is occurring and within 24 hours after any storm event of greater than 0.25 inches of rain per 24-hour period.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Department shall be signed and certified.

- A. All permit applications shall be signed by either a responsible corporate officer of at least the level of vice president of a corporation, a general partner of a partnership, or the proprietor of a sole proprietorship.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above and submitted to the Department.
 - 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2, above, is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B.2, above, must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- B. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:
1. A material change in the condition of the waters of the state.
 2. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
 3. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.
 4. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.
 5. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.
 6. The Department has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
 7. Incorporation of an approved local pretreatment program into a municipality's permit.
- C. The following are causes for modification or alternatively revocation and reissuance:
1. Cause exists for termination for reasons listed in A1 through A7, of this section, and the Department determines that modification or revocation and reissuance is appropriate.
 2. The Department has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G8) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new Permittee.

G4. REPORTING PLANNED CHANGES

The Permittee shall, as soon as possible, but no later than sixty (60) days prior to the proposed changes, give notice to the Department of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in:

- 1) the permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b);
- 2) a significant change in the nature or an increase in quantity of pollutants discharged; or
- 3) a significant change in the Permittee's sludge use or disposal practices.

Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G8. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee, in order to maintain compliance with its permit, shall control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G9. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G10. DUTY TO PROVIDE INFORMATION

The Permittee shall submit to the Department, within a reasonable time, all information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also submit to the Department upon request, copies of records required to be kept by this permit.

G11. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G12. ADDITIONAL MONITORING

The Department may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G13. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department.

G14. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars (\$10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

G19. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two (2) years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this Condition, punishment shall be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

G20. REPORTING ANTICIPATED NONCOMPLIANCE

The Permittee shall give advance notice to the Department by submission of a new application or supplement thereto at least one hundred eighty (180) days prior to commencement of such discharges, of any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility or activity which may result in noncompliance with permit limits or conditions. Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, shall be scheduled during noncritical water quality periods and carried out in a manner approved by the Department.

G21. REPORTING OTHER INFORMATION

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

G22. REPORTING REQUIREMENTS APPLICABLE TO EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS

The Permittee belonging to the categories of existing manufacturing, commercial, mining, or silviculture must notify the Department as soon as they know or have reason to believe:

- A. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels":
 1. One hundred micrograms per liter (100 µg/L).
 2. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony.
 3. Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 4. The level established by the Director in accordance with 40 CFR 122.44(f).

APPENDIX I

LIQUID-FLOC CHITOSAN ENHANCED SAND FILTRATION (Natural Site Solutions)

Maintenance of Safety Margin

Chitosan acetate can effectively treat stormwater turbidity up to 600 NTU without using a concentration above 1.06 mg/L. 1.06 mg/L chitosan is below its toxic threshold of 1.21 mg/L in clear water. In addition, chitosan will be removed from solution by binding to solids and by being withheld in the sand filter. The safety margin will certainly be maintained if the treatment concentration is kept to 1.06 mg/L or below. Any mechanical failure of the positive displacement metering pump will immediately cause a reduction in Liqui-Floc dosing, so pump failure is only a problem for treatment effectiveness and not safety margin maintenance.

The following dose rate table shall be used to ensure both treatment plant effectiveness and a chitosan concentration below 1.06 mg/L prior to sand filtration.

Dose Rate Table for Liqui-Floc (1% Chitosan Acetate) Based on Flow and Turbidity

<u>Turbidity</u>	<u>Stormwater Flow Rate</u>	<u>Liqui-Floc Dose Rate</u>	<u>Chitosan Concentration</u>
50 - 200 NTU	200 gpm	20 ml/min or 0.32 gph	0.26 mg/L
	300 gpm	30 ml/min or 0.48 gph	
	400 gpm	40 ml/min or 0.64 gph	
	500 gpm	50 ml/min or 0.8 gph	
	600 gpm	60 ml/min or 0.96 gph	
	700 gpm	70 ml/min or 1.11 gph	
200 - 400 NTU	200 gpm	40 ml/min or 0.64 gph	0.53 mg/L
	300 gpm	60 ml/min or 0.96 gph	
	400 gpm	80 ml/min or 1.27 gph	
	500 gpm	100 ml/min or 1.6 gph	
	600 gpm	120 ml/min or 1.91 gph	
	700 gpm	140 ml/min or 2.23 gph	
400 - 600 NTU	200 gpm	80 ml/min or 1.27 gph	1.06 mg/L
	300 gpm	120 ml/min or 1.91 gph	
	400 gpm	160 ml/min or 2.54 gph	
	500 gpm	200 ml/min or 3.17 gph	
	600 gpm	240 ml/min or 3.81 gph	
	700 gpm	280 ml/min or 4.45 gph	

Checking formula:

chitosan concentration in mg/L = (ml/min Liqui-Floc $\times$ 0.01 $\times$ 1 g/ml $\times$ 1000 mg/g) / system flow rate in liters/min
 liters/min = gpm $\times$ 3.78 liters/gal

Safety Margin Checklist

- Only Storm Klear Liqui-Floc™ containing 1 percent chitosan acetate shall be used.
- The metering pump shall be calibrated using a calibration cylinder at startup and every time that the Liqui-Floc dose rate needs changed. The calibration shall be recorded in the log. The stroke frequency shall be set as high as possible, and the stroke length adjusted to provide the correct dosing.

APPENDIX II

FLOC-CLEAR CHITOSAN ENHANCED SAND FILTRATION (Clear Creek Systems, Inc.)

Maintenance of Safety Margin

Chitosan acetate can effectively treat storm water up to 600 NTU without using a concentration above 1.06 mg/L. 1.06 mg/L chitosan from FlocClear™ is below its toxic threshold of 2.5 mg/L in clear water. The chitosan concentration will decrease after dosing due to binding to solids and the sand filter. If the metering pump fails, the anti-siphon valve will prevent FlocClear™ from being siphoned into the system. If the metering pump is incorrectly calibrated and the storm water is overdosed, treated water will not coagulate well enough to be clarified and the turbidimeter will trigger the return of effluent to the detention structure instead of discharge.

The following dose rate table shall be used to ensure both treatment plant effectiveness and a chitosan concentration below 1.06 mg/L prior to sand filtration:

Influent Turbidity (NTU)	Influent Flow Rate (gpm)	FlocClear™ 2% Solution Dose Rate		chitosan (mg/L)	Influent Turbidity (NTU)	Influent Flow Rate (gpm)	FlocClear™ 2% Solution Dose Rate		chitosan (mg/L)
		ml/min	gph				ml/min	gph	
50 - 150	100	5	0.08	0.265	150 - 300	100	10	0.16	0.529
	200	10	0.16			200	20	0.32	
	300	15	0.24			300	30	0.48	
	400	20	0.32			400	40	0.63	
	500	25	0.40			500	50	0.79	
	600	30	0.48			600	60	0.95	
	700	35	0.56			700	70	1.11	
	800	40	0.64			800	80	1.27	
	900	45	0.72			900	90	1.43	
	1000	50	0.79			1000	100	1.59	
300 - 450	100	15	0.24	0.794	450 - 600	100	20	0.32	1.058
	200	30	0.48			200	40	0.63	
	300	45	0.71			300	60	0.95	
	400	60	0.95			400	80	1.27	
	500	75	1.19			500	100	1.59	
	600	90	1.43			600	120	1.90	
	700	105	1.67			700	140	2.22	
	800	120	1.91			800	160	2.54	
	900	135	2.14			900	180	2.86	
	1000	150	2.38			1000	200	3.17	

Checking formula:

chitosan concentration in mg/L = (ml/min FlocClear™ x 0.02 x 1 g/ml x 1000 mg/g)/system flow rate in liters/min
 liters/min = gpm x 3.78 liters/gal

Safety Margin Checklist

- Only FlocClear™ containing 2 percent chitosan acetate shall be used and discharges shall only be to stormwater.
- No chitosan-treated water shall be discharged without first receiving sand filtration.

ADDENDUM TO FACT SHEET
Permit No. WA-003212-3
BNSF Railway Company

This is an addendum to the fact sheet accompanying NPDES Permit No. WA-003212-3, which was issued to BNSF Railway Company on May 4, 2006. The following revision is made to increase the stringency of some of the permit conditions, and allow flexibility to the Permittee to choose between two approved chitosan products for use.

DESCRIPTION OF MODIFICATION TO THE PERMIT

Special Condition S1.B, page 5, third paragraph: The sentence will be changed to read "Visible track-out on public roads is prohibited."

Special Condition S1.I, Compliance With Standards, will be added to the permit which reads as follows:

I. Compliance With Standards

The Permittee shall comply with State of Washington Surface Water Quality Standards (Chapter 173-201A WAC), Sediment Management Standards (Chapter 173-204 WAC), Ground Water Quality Standards (Chapter 173-200 WAC), and human health-based criteria in the National Toxics Rule (Federal Register, Vol. 57, No. 246, December 22, 1992, pages 60848-60923).

When not in compliance with these standards, the Permittee shall take immediate action(s) to achieve compliance by implementing additional best management practices (BMPs) and/or improved compliance with existing BMPs and file a noncompliance notification as required under Condition S3.E.

Facilities that discharge either directly or indirectly by means of a stormwater conveyance system to waters listed as impaired by the State under Section 303(d) of the Clean Water Act must comply with the State's Surface Water Quality Standards.

The entire section of Special Condition S3.E, Twenty-four Hour Notice of Noncompliance Reporting, on page 10, will be changed to read as follows:

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the terms and conditions of this permit due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and clean up unauthorized discharges or otherwise stop the noncompliance, correct the problem and, if applicable, repeat sampling and analysis of any noncomplying discharges immediately and submit the results to the Department within five (5) days after becoming aware of the violation.

Building Permits from Town of Skykomish

Town of Skykomish - BUILDING PERMIT

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto:

Application is hereby made for permit to do the following work:

Construct Foundation For House
Install Driveway and Sidewalks
to City lot line

5060800005
Lot _____ Blk. _____ Subd. _____
at 117 6th Street N.
(Street number or lot and block numbers)

1. Building dimensions are _____
2. Lot dimensions are _____
3. Building will be _____ stories in height.
4. Number of basements _____
5. Occupancy of building will be R
6. Building will be _____ feet from nearest adjoining lot line.
7. Set back from road _____
8. Owner Skykomish School District #404
9. Owner's Address P.O. Box 325 Skykomish, WA
10. Builder D.B. Davis, LLC
11. Builder's Address P.O. Box 326
11014 192nd Ave. S.E.
Everett, WA 98208
12. Architect or Engineer _____
13. Area zoned? Yes ☒ No ☐
- Date 10-18 10-2006

Applicant's Signature James E Davis
(Owner or his agent)

PERMIT 1035

SCHOOL DIST.

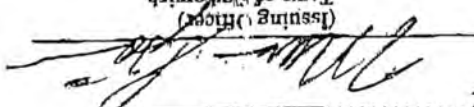
THIS SPACE IS FOR INSPECTOR ONLY
 Town of Skykomish, Washington
 If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.
 1st inspection 6/16/2006 11:21 AM
 2nd inspection _____
 3rd inspection _____
 NO USE PERMIT WILL BE ISSUED UNTIL TOWN INSPECTOR HAS APPROVED THE FINISHED STRUCTURE

Estimated cost \$ 37,088
Group No. _____
Life of Permit 10-18-2007
date
Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 522.55
2. plan check \$ 339.66
3. state inspection and supervision fee ... \$ 4.50
4. Total \$ 866.71

RECEIVED BY [Signature]
(Issuing Officer)
Town of Skykomish

4. Total RECEIVED BY

(Issuing Office)
Town of Skowhegan

Town of Skykomish - BUILDING PERMIT POST

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto:

Application is hereby made for permit to do the following work:

Construct House Foundation
Install Driveway and Sidewalks
to City Property Line

Assessor # 7807800750

Lot _____ Blk. _____ Subd. _____
at 125 5th St. North (West Structure)
(Street number or lot and block numbers)

1. Building dimensions are _____
 2. Lot dimensions are _____
 3. Building will be _____ stories in height.
 4. Number of basements _____
 5. Occupancy of building will be Residential
 6. Building will be _____ feet from nearest adjoining lot line.
 7. Set back from road _____
 8. Owner Mitchell, Dick
 9. Owner's Address 125 5th St. North
 10. Builder DB Davis, LLC
 11. Builder's Address PMB #326 11014 19th Ave SE
Everett, WA 98208
 12. Architect or Engineer N/A
 13. Area zoned? Yes ☒ No ☐
- Date 10-18-2007

Applicant's Signature

James E Davis
(Owner or his agent)

PERMIT 1034

MITCHELL (WEST)

THIS SPACE IS FOR INSPECTOR ONLY

Town of Skykomish, Washington
If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.

OK FEUR 11-15-06 ML

1st inspection

2nd inspection

3rd inspection

NO USE PERMIT WILL BE ISSUED UNTIL
TOWN INSPECTOR HAS APPROVED
THE FINISHED STRUCTURE

Estimated cost \$ 42,374

Group No. _____

Life of Permit 10-18-2007
date

Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 573.05
2. Plan check
Sewer permit fee \$ 372.48
3. State
Inspection and supervision fee ... \$ 4.50
4. Total \$ 950.03

RECEIVED BY

Mary Gair
(Issuing Officer)
Town of Skykomish

Town of Skykomish - BUILDING PERMIT

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto:

Application is hereby made for permit to do the following work:

Construct Foundation For House
Install Driveway And Sidewalks
to City lot line.

5060800005

Lot _____ Blk. _____ Subd. _____
at 117 6th Street N.
(Street number or lot and block numbers)

1. Building dimensions are _____
 2. Lot dimensions are _____
 3. Building will be _____ stories in height.
 4. Number of basements _____
 5. Occupancy of building will be R
 6. Building will be _____ feet from nearest adjoining lot line.
 7. Set back from road _____
 8. Owner Skykomish School District #404
 9. Owner's Address P.O. Box 325 Skykomish, WA
 10. Builder D.B. Davis, LLC
 11. Builder's Address P.M.B. 326
11014 192nd Ave. S.E.
Everett, WA 98206
 12. Architect or Engineer _____
 13. Area zoned? Yes ☒ No ☐
- Date 10-18 2006

Applicant's Signature

James E Davis
(Owner or his agent)

PERMIT 1035

SCHOOL DIST.

THIS SPACE IS FOR INSPECTOR ONLY

Town of Skykomish, Washington

If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.

1st inspection
11-21-06
1-12-07

2nd inspection

3rd inspection

NO USE PERMIT WILL BE ISSUED UNTIL
TOWN INSPECTOR HAS APPROVED
THE FINISHED STRUCTURE

Estimated cost \$ 37,088

Group No. _____

Life of Permit 10-18-2007
date

Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 522.55
2. plan check
Sewer permit fee \$ 339.66
3. state
inspection and supervision fee \$ 4.50
4. Total \$ 866.71

RECEIVED BY

Mr. Davis
(Issuing Officer)
Town of Skykomish

Town of Skykomish - BUILDING PERMIT

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto:

Application is hereby made for permit to do the following work:

Construct Foundations For House and Garage.
Re-install existing rear porch deck,
install driveway and sidewalk to
City Property line.

780780706 & 7807800705

Lot _____ Blk. _____ Subd. _____

at 120 6th Street N.
 (Street number or lot and block numbers)

1. Building dimensions are _____

2. Lot dimensions are _____

3. Building will be _____ stories in height.

4. Number of basements _____

5. Occupancy of building will be R

6. Building will be _____ feet from nearest adjoining lot line.

7. Set back from road _____

8. Owner Michael Moore

9. Owner's Address 120 6th St. N.

10. Builder DB Davis LLC

11. Builder's Address PM B 326
11614 19th Ave SE
Everett WA 98208

12. Architect or Engineer _____

13. Area zoned? Yes ☒ No ☐

Date 10-18 10-2006

Applicant's Signature

James E Davis
 (Owner or his agent)

PERMIT 1036

MOORE

THIS SPACE IS FOR INSPECTOR ONLY

Town of Skykomish, Washington

If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.

11-21-07
11-21-07
11-21-07

1st inspection

2nd inspection

3rd inspection
 NO USE PERMIT WILL BE ISSUED UNTIL
 TOWN INSPECTOR HAS APPROVED
 THE FINISHED STRUCTURE

Estimated cost \$ 39,403

Group No. _____

Life of Permit 10-18-2007
 date

Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 542.75

2. Plan check
 Permit fee \$ 352.79

3. State
 Inspection and supervision fee \$ 4.50

4. Total \$ 900.04

RECEIVED BY

James E Davis
 (Issuing Officer)
 Town of Skykomish

Town of Skykomish - BUILDING PERMIT

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto:

Application is hereby made for permit to do the following work:

Construct Foundation For House.
Install Driveway and Sidewalks to
City Property Line

Lot _____ Blk. _____ Subd. _____
at 125 5th St N. (East structure)
(Street number or lot and block numbers)

1. Building dimensions are _____
2. Lot dimensions are _____
3. Building will be _____ stories in height.
4. Number of basements _____
5. Occupancy of building will be R
6. Building will be _____ feet from nearest adjoining lot line.
7. Set back from road _____
8. Owner Mitchell, Dick
9. Owner's Address 125 5th Street N. (East structure)
10. Builder DB Davis, LLC
11. Builder's Address PM B 326
11014 19th AVE SE
Everett WA 98203
12. Architect or Engineer _____
13. Area zoned? Yes ☒ No ☐
- Date 10-18 10-2006

Applicant's Signature

James E Davis
(Owner or his agent)

PERMIT 1038

MITCHELL (EAST)

THIS SPACE IS FOR INSPECTOR ONLY

Town of Skykomish, Washington
If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.

1st inspection OK Walls 11-30 This

2nd inspection _____

3rd inspection _____

NO USE PERMIT WILL BE ISSUED UNTIL
TOWN INSPECTOR HAS APPROVED
THE FINISHED STRUCTURE

Estimated cost \$ 37,400

Group No. _____

Life of Permit 10-18-2007
date

Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 522.55
2. Plan check Sewer permit fee \$ 339.66
3. State inspection and supervision fee \$ 4.50
4. Total \$ 866.71

RECEIVED BY

Man [Signature]
(Issuing Officer)
Town of Skykomish

Town of Skykomish - BUILDING PERMIT

Applicant hereby certifies that a plot, plan, drawings, and sufficient details to indicate the intention to fulfill all requirements of this ordinance are attached hereto;

Application is hereby made for permit to do the following work:

Construct Foundations For House
And Garage, install New
Driveway And Sidewalks to City
Property line.

7807800707

Lot Blk. Subd.
at 124 6th Street N.
(Street number or lot and block numbers)

1. Building dimensions are
2. Lot dimensions are
3. Building will be stories in height
4. Number of basements
5. Occupancy of building will be
6. Building will be feet from nearest adjoining lot line
7. Set back from road
8. Owner Mackner, Bob & Charlotte
9. Owner's Address 124 6th St. N. PO Box 343
Skykomish, WA
10. Builder DB Davis, LLC
PM B 326
11. Builder's Address 11014 19th Ave SE
Everett, WA 98208
12. Architect or Engineer
13. Area zoned? Yes ☒ No ☐

Date 10-18 2006

Applicant's Signature

James E Davis
(Owner or his agent)

PERMIT 1037

MACKNER

THIS SPACE IS FOR INSPECTOR ONLY

Town of Skykomish, Washington
If no violations are noted, initial in the proper places below. If this is not the case, describe any violations on reverse side of your copy, and notify applicant in written form.

Howe OK 12-01-11 11:15-14
12-14-08

2nd inspection

3rd inspection

NO USE PERMIT WILL BE ISSUED UNTIL
TOWN INSPECTOR HAS APPROVED
THE FINISHED STRUCTURE

Estimated cost \$ 46,412

Group No.

Life of Permit 10-18-2007
date

Plans filed? Yes ☒ No ☐

Permission is hereby granted to do the work described hereon according to the approved plans and specifications pertaining hereto, subject to compliance with any ordinances or zoning ordinances of the Town of Skykomish. This copy is your receipt for the following fees:

1. Building permit fee \$ 613.45
2. Plan check Sewer permit fee \$ 398.74
3. State Inspection and supervision fee \$ 4.50
4. Total \$ 1016.69

RECEIVED BY

Man-Lie
(Issuing Officer)
Town of Skykomish

Septic Permits

02-2007 FRI #0

Deface this Permit — POST ON JOB SITE

Permit No ON0078651

TIC PRMT 17 320.00
CK 320.00

TRANSFERABLE

Date Issued 02/02/2007

Expires 01/24/2009

M 1

ON-SITE SEWAGE SYSTEM

IA 8293 10:26TH

avity
LYKOMISH SCHOOL DIST 404

Bldg. Type

Parcel No

Location

Plot Name

5060800005

105 6TH ST N

Const. Type

Valid By

Lot Number

R

EE0100089

Applicant

A Wesco Septic, Inc

(425)486-3160

Installer

Bunt, Lewis

MI176

Designer:

1. The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3)
2. Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
3. OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Mound Sys. Site Prep	_____	Designer	_____	Date	_____
Mound Sys. Bed Prep	_____	Designer	_____	Date	_____
Pressure Test	_____	Designer	_____	Date	_____

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (E.H.S.) have approved (OK'd) to BACKFILL.

OK To Backfill	_____	Disapproved	_____	Date	_____
Designer	_____				
OK To Backfill	_____	Disapproved	_____	Date	_____
E.H.S.	_____				
Final Cover (Approved)	_____	Disapproved	_____	Date	_____
Designer	_____				

Corrections Required _____

(See reverse side for more corrections)

I, Lewis Bunt, (Master/Associate) Installer was present at the above property
supervising placement of final cover. Time _____ Date 2-5-07

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified Installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Signature of Master Installer

Lewis Bunt
Lewis Bunt

Date 2-5-07



Public Health
Seattle & King County
Environmental Health Division

Unlawful to Alter or Deface this Permit — POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

Permit No. **ON0078240**

Date Issued 12/14/2006

Expires 12/14/2008

PERMIT TO REPAIR ON-SITE SEWAGE SYSTEM

System Type: Other
Owner Name: RETEC GROUP, INC
Bldg. Type: Single Family
Parcel No: 7807800750
Location: 750 5TH ST N
Plot Name:

Const. Type: R
Valid By: EEO100094
Lot Number:

Applicant: A Wesco Septic, Inc.

(425) 496-3160

Installer: Burt, Lewis

ME176

1. The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3).
2. Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
3. OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Mound Sys. Site Prep _____ Designer _____ Date _____
 Mound Sys. Bed Prep _____ Designer _____ Date _____
 Pressure Test 57-55 Designer Craig Shuck Date 1-5-07

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (E.H.S.) have approved (OK'd) to BACKFILL.

OK To Backfill _____ Disapproved _____ Date 1-5-07
 Designer ✓
 OK To Backfill Craig Shuck Disapproved _____ Date 1-5-07
 E.H.S. OK
 Final Cover (Approved) R. E. E. E. Disapproved _____ Date _____
 Designer _____

Corrections Required

① new sewer line completed to Guest House ② sewer to ③ final sewer by pass to street. ④ Repressure test w/Perm. Pump.

(See reverse side for more corrections)

I _____ (Master/Associate) Installer was present at the above property supervising placement of final cover. Time _____ Date _____

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified Installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Signature of Master Installer

Craig Shuck
R. E. E. E.

Date 1-5-07



Public Health
Seattle & King County
Environmental Health Division

Unlawful to Alter or Deface this Permit — POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

Permit No. **ON0078238**

Date Issued **12/14/2006**

Expires **12/14/2008**

PERMIT TO INSTALL NEW ON-SITE SEWAGE SYSTEM

System Type **Other**
Owner Name **MACKNER, S. CHARLOTTE**
Bldg. Type **Single Family**
Parcel No **7807800707**
Location **707 5TH ST**
Plot Name

Cont. Type **N**
Valid By **EE0100084**
Lot Number

Applicant **A. Weston Segal**

(425)486-3160

Inspector **Burt, Lewis** **MT76**

- The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3).
- Insurance of this permit does not constitute an approval of the site or work contemplated or performed.
- OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Measured Dye, Site Prep

Measured Dye, Bed Prep

Pressure Test

5-2-07

Design

Design

Date

1-5-07

Do Not BACKFILL (Cover) system until BOTH Design and Health Department (R.H.S.) have approved (OK'd) to BACKFILL.

Design

Design

Date

1-5-07

OK To Backfill

Design

OK

Design

Design

Date

1-5-07

Final Cover (Approved)

Design

K. Blum

Design

Design

Date

1-5-07

Corrective Required

Design

① & Permit for w/flow Power ② Sewer Jet ③ Connect

SWR IN

(See reverse side for notes corrections)

I, _____ (Manufacturer/Installer) Installer was present at the above property

supervising placement of final cover.

Date

Date

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified

Installer employed by me, was present at all times during the installation.

Signature of Installer/Installer

[Signature]

Date

1-5-07



Public Health
Seattle & King County
Environmental Health Division

Unlawful to Alter or Deface this Permit — POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

Permit No **ON0078239**
Date Issued 12/14/2006
Expires 12/14/2008

PERMIT TO INSTALL NEW ON-SITE SEWAGE SYSTEM

System Type Other
Owner Name MOORE MICHAEL P
Bldg. Type Single Family
Parcel No 7807800705
Location 705 6TH ST
Plot Name

Coast Type N
Valid By EE0100094
Lot Number

Applicant A Weeco Septic, Inc.

(425)486-3160

Installer Burt, Lewis

MD176

Draft King County Special Use Permit S-64-06



King County

Facilities Management Division

Real Estate Services Section

Department of Executive Services

King County Administration Building
500 Fourth Avenue, Room 500
Seattle, WA 98104-2337

206-296-7470 206-296-0196 Fax

TTY Relay: 711

July 18, 2006

Burlington Northern Railway
C/O RETEC Group
1011 SW Klickitat Way Suite 207
Seattle WA. 98134-1162
Attention: Dan Berlin

**RE: Special Use Permit S-64-06 – To Perform Contamination Clean
Up Activities.**

Dear Burlington Northern Railway:

Enclosed is the above referenced special use permit, please sign the permit and return it to this office for further processing. Also, please send a check made payable to King County Treasury for Eighty Five-Dollars (\$85.00) for permit fees. Prior to the issuance of this permit a Certificate of Insurance, naming King County as an additional insures, for One Million-Dollars (\$1,000,000.00) and a Bond for Ten Thousand-Dollars (\$10,000.00) must be on file in this office. This permit is not valid without the signatures of the Managers of the Real Estate Services Section and the King County Department of Natural Resources Water & Land Resources Division.

Sincerely,

Bernard Thompson
Permit and Franchise Supervisor

BT: CAY

Enclosure: Special Use Permit S-64-06

KING COUNTY
Department of Construction and Facilities Management
Property Services Division
500 King County Administration Building
500 Fourth Avenue
Seattle, WA 98104 (206) 296-7456 FAX 296-0196

SPECIAL USE PERMIT
Use of County Owned Property

PERMIT NUMBER: S-64-06	FILE NO.	DATE: 04/07/2006
PERMITTEE:		
BURLINGTON NORTHERN RAILWAY C/O RETEC GROUP - DAN BERLIN 1011 SW KICKITAT WAY SUITE 207 SEATTLE, WA 98134-1162		
DAY PHONE: 624-9349 OTHER/FAX PHONE: 625-2839F		
PURPOSE: TO PERFORM CONTAMINATION CLEAN-UP ACTIVITIES.		
LEGAL DESCRIPTION 1/4 Sec Twp Rge Account No. Kroll Page SW 26 26 11 WP53		
SKYKOMISH FLOOD CONTROL LEVEE PARCEL #272611-9010 WITHIN THE BOUNDARIES OF THE ABOVE REFERENCED PARCEL. (SEE LOCATION PLANS DATE 4/7/06).		
EXPIRATION: This permit shall not be valid for more than 1 YEAR and expires on the day of 2007.		
PERMIT FEE: \$ 85.00 INSPECTION FEE: \$ 0.00		
ADMINISTRATIVE FEE: \$ 0.00 PLAN REVIEW FEE: \$ 0.00		
LAND USE FEE: \$ 0.00 OTHER FEE: \$ 0.00		
BOND AMOUNT: \$ 10,000.00 INSURANCE AMOUNT: \$ 1,000,000.00		
Permittee MUST notify TOM BEAN AT: 296-8377 AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND IMMEDIATELY UPON COMPLETION.		
By this permit King County authorizes the use of the above described property:		
Custodial Approval _____ Date _____		
Property Services Approval _____ Date _____		
The Permittee agrees to comply with the terms and conditions contained herein. SEE REVERSE SIDE FOR TERMS AND CONDITIONS.		
Signature of Permittee _____ Date _____		

NOTE: Permit not valid without all necessary signatures and expiration date.
Ordinance 4099, King County Code 14.46

TERMS AND CONDITIONS

1. PERMIT REVOCATION: This Permit is revocable at any time by King County. The right to revoke is expressly reserved to King County.
2. INDEMNITY AND HOLD HARMLESS: The Permittee agrees to indemnify and hold harmless King County as provided herein to the maximum extent possible under law. Accordingly, the Permittee agrees for itself, its successors and assigns to defend, indemnify, and hold harmless King County, its appointed and elected officials, and employees from and against liability for all claims, demands, suits, and judgments including costs of defense thereof for injury to persons, death, or property damage which is caused by, arises out of, or is incidental to Permittee's exercise of rights and privileges granted by this Permit. The Permittee's obligation under this section shall include: a) Indemnification for such claims whether or not they arise from the sole negligence of either the County or the Permittee, the concurrent negligence of both parties, or the negligence of one or more third parties. b) The duty to promptly accept tender of defense and provide defense to the County at the Permittee's own expense. c) Indemnification of claims made by the Permittee's own employees or agents. d) Waiver of the Permittee's immunity under the industrial insurance provisions of Title 51 RCW, which waiver has been mutually negotiated by the parties.

In the event it is necessary for the County to incur attorney's fees, legal expenses, or other costs to enforce the provisions of this section, all such fees, expenses, and costs shall be recoverable from the Permittee.

In the event it is determined that RCW 4.24.115 applies to this agreement, the Permittee agrees to defend, hold harmless, and indemnify King County to the maximum extent permitted thereunder, and specifically for its negligence concurrent with that of King County to the full extent of Permittee's negligence. Permittee agrees to defend, indemnify, and hold harmless the County for claims by Permittee's employees and agrees to waiver of its immunity under Title 51 RCW, which waiver has been mutually negotiated by the parties.
3. ANTI-DISCRIMINATION: In all hiring or employment made possible or resulting from this Permit, there shall be no discrimination against any employee or applicant for employment because of race, color, ancestry, religion, national origin, age, sex, sexual orientation, marital status, or the presence of any sensory, mental or physical handicap in an otherwise qualified handicapped person unless based upon a bona fide occupational qualification, and this requirement shall apply to but not be limited to the following: employment, advertising, lay-off or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. No person shall be denied, or subjected to discrimination in receipt of the benefit of any services or activities made possible by or resulting from this Permit on the grounds of race, color, ancestry, religion, national origin, age (except minimum age and retirement provisions), sex, sexual orientation, marital status, parental status, the presence of any sensory, mental or physical handicap, or the use of a trained guide-dog by a blind or deaf person. Any violation of this provision shall be considered a violation of a material provision of this Permit and shall be grounds for cancellation, termination or suspension in whole or in part of the Permit by the County, and may result in ineligibility for further County permits.
4. NON-EXCLUSIVE RIGHT: This Permit shall not be deemed or construed to be an exclusive right. It does not prohibit the County from granting any other permits to other public or private entities, nor shall it prevent the County from using any public place for any and all public use or affect its jurisdiction over any part of them.
5. ASSESSMENTS: Permittee shall be required to pay any general or special assessments incurred by King County which are directly attributable to or arising from any actions, occupancy, or usage authorized herein.
6. TERMINATION: The Permittee may terminate the Permit by written notice to the Manager of Real Estate Services Section. Upon revocation, termination, or abandonment, the Permittee shall remove at his expense all facilities placed on said property by the Permittee, and restore the premises to a condition which is equivalent in all respects to the condition existing prior to installation of the facilities, or to a condition which is satisfactory to the County. If the Permittee has not accomplished removal and restoration at the end of a ninety-day period following the effective date of revocation, termination, expiration, or abandonment, the County may accomplish all of the necessary work and charge all of the costs to the Permittee.
7. RESTORATION: After completion of work authorized by this Permit, the Permittee shall restore the property to a condition which is equivalent in all respects to the condition of the property prior to starting work, or a condition satisfactory to King County. If the Permittee delays the restoration beyond expiration of the Permit, the County may accomplish all the necessary work and charge all the costs to the Permittee.
8. REPAIRING DAMAGE BY PERMITTEE: In the event that damage of any kind is caused by the Permittee in the course of performing work authorized by this Permit, Permittee will repair said damage at its sole cost and expense. Repair work shall begin without delay and continue without interruption until completed. If damage is extensive, the time allowed for repair will be prescribed by the County agent. If the County determines it is necessary, the County may accomplish the work and charge all the costs to the Permittee.
9. ABATEMENT OF UNSAFE CONDITIONS: The County representative may at any time, do, order, or have done all work considered necessary to restore to a safe condition any area described in Permit left by the Permittee in a condition dangerous to life or property. The Permittee shall pay, upon demand, to the County all costs of such work, materials, etc. Nothing in this section shall relieve the Permittee of duties under Terms and Conditions No. 2 above.
10. RIGHTS RESERVED TO COUNTY - CONFORMANCE AND PAYMENT OF COST REQUIRED: The County reserves the right to use, occupy, and enjoy its property for such purposes as it shall desire including, but not limited to, constructing or installing structures and facilities on the property, or developing, improving, repairing or altering the property. The Permittee, upon written notice, will at his own cost and expense remove, repair, relocate, change or reconstruct such installations to conform with the plans of work contemplated or ordered by the County according to a time schedule contained in the written notice.
11. NOTICE: Permittee agrees to obtain information from other utility operators regarding the location and current status of their installations before starting work. Property owners adjoining, or in proximity to, the project as described herein shall be notified by Permittee when such property is exposed to the possibility of injury or damage through performance of work on the project authorized by this Permit. Permittee shall make all advance arrangements necessary to protect such property or utility from injury or damage.
12. OTHER APPLICABLE LAWS: Issuance of this Permit does not in any way relieve the Permittee from complying with any other applicable laws in performing the work subject to this Permit.
13. RE-ENTRY: After completion of work authorized by this Permit, if the Permittee desires to re-enter upon the property described herein for any reconstruction, notice shall be provided in advance to King County together with the plans and specifications for the work proposed, and shall not be permitted without the County's consent.
14. TITLE: This Permit grants only the right to use King County's interest in the herein described property, and the granting of this Permit is not a warranty that good title to any specific property is vested in King County.
15. SPECIAL TERMS AND CONDITIONS: (SEE ATTACHED SHEET(S))

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15. SPECIAL TERMS AND CONDITIONS:

- a. The Burlington Northern Santa Fe (BNSF) Railroad recognizes and agrees to protect and preserve King County easement rights in, under, on, through and along the existing flood control levee system in the Town of Skykomish. King County's easement rights are limited to activities associated with flood control purposes and cannot be the sole source of authorization for BNSF use of the property within the easement area. BNSF must secure additional authorization separately from the underlying landowner(s).
- b. BNSF agrees to locate all permanent construction of extraction and monitoring wells, and any other cleanup-project structures, outside the flood control levee structure.
- c. BNSF agrees to designate an "exclusion zone" as necessary for safe completion of the cleanup project. The "exclusion zone" may include lands encompassed by King County's river protection easement rights. Subject to the terms of section d below, King County will respect the regulatory limitations that accompany designation of the "exclusion zone," and King County staff will stay outside that boundary while work is being done.
- d. BNSF agrees to provide for King County access to the entire levee structure at any time such access is requested. This provision applies both outside and within the "exclusion zone" addressed above. Immediately upon request by King County, and for as long as King County finds necessary, BNSF agrees to take whatever actions that might be required in order to eliminate any "exclusion zone" restrictions or any other project-related hindrance from any part of the levee structure. BNSF agrees to hold King County as well as its staff harmless for any costs and or liabilities associated with any work stoppage or delay caused by the County's use of the easement rights area or with any other actions by King County within the easement rights area that have impacts on the oil contamination remediation project.
- e. BNSF acknowledges responsibility for all aspects of design, construction, and quality control to fully replace all flood control function, equivalent to or better than previous condition, in all areas where the cleanup project involves removal and replacement of the existing levee structure.
- f. BNSF agrees to guarantee construction of the replacement levee, and to post a bond in the amount of \$1,125,000 in support of the performance guarantee. The bond may be used, in whole or in part, at the sole discretion of King County, to fund any aspect of levee completion.

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15. SPECIAL TERMS AND CONDITIONS CONTINUED:

- g. BNSF agrees to provide a five-year defect and maintenance guarantee of the materials, workmanship, design, maintenance and operation of the replacement levee structure. This five-year guarantee is to begin when King County approves that construction of the replacement levee is complete. During the guarantee period, BNSF acknowledges and accepts responsibility for any maintenance or repair that may be required in King County's sole discretion.
- h. BNSF agrees to post a bond in the amount of \$337,500 in support of the defect and maintenance guarantee. The bond may be used, in whole or in part, at the sole discretion of King County, to fund any levee maintenance or repair during the guarantee period.
- i. During the defect and maintenance guarantee period, King County staff will periodically inspect the levee structure. King County shall provide notice to BNSF when maintenance and/or repairs are necessary, and will specify a reasonable timeframe for such work to be completed. In the event that BNSF does not complete such maintenance and/or repair, King County may perform such work upon prior notice to BNSF. If this occurs, BNSF agrees to reimburse King County for any and all costs incurred.
- j. BNSF acknowledges responsibility for remediation of oil contamination within the easement rights area, including the levee structure. BNSF further acknowledges responsibility for all costs associated with the remediation and cleanup of this contamination. If flood or other conditions cause King County to take actions that King County deems to be appropriate because of the remediation and cleanup work, BNSF agrees to reimburse King County for all of its costs.
- k. BNSF agrees to provide all appropriate safety training for all King County staff whose assignments require readiness for emergency action in the area of contamination. The training will be sufficient to satisfy all regulatory requirements applicable to excavation of the contaminated materials in the levee and the surrounding area. King County will identify staff for participation in this training, which will be provided each year until the remediation is complete and the levee is free of contamination. BNSF further agrees that direct and indirect costs of staff attendance at this training are fully reimbursable under section e above.

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15. **SPECIAL TERMS AND CONDITIONS CONTINUED:**

- l. BNSF shall protect, defend, indemnify and save harmless King County, its officers, officials, employees and agents, while acting within the scope of their employment from any and all costs, claims, judgments, penalties, and/or awards of damages, arising out of or in any way resulting from BSNF's, its employee's or agent's, acts or omissions at or associated with the easement rights area.
- m. King County reserves the right to set additional terms as unforeseen conditions may warrant.

15n. **INSURANCE:**

By the date of issuance of this permit, the permittee shall procure and maintain, for the duration of this permit, insurance or coverage against claims for injuries to persons or damages to property which may arise from and in connection with the rights and privileges granted by this permit and/or the performance of work hereunder by the permittee, his agents, representatives, employees and/or subcontractors.

By requiring such minimum insurance coverage, the County shall not be deemed or construed to have assessed the risks that may be applicable to the Contractor under this contract. The Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

Nothing contained within these insurance requirements shall be deemed to limit the scope, application and/or limits of the coverage afforded, which coverage will apply to each insured to the full extent provided by the terms and conditions of the policy(s). Nothing contained within this provision shall affect and/or alter the application of any other provision contained within this Agreement.

For All Coverages: The cost of such insurance shall be paid by the permittee. Each insurance policy shall be written on an "Occurrence Form."

1. Minimum Scope and Limits of Insurance

Coverage shall be at least as broad as:

General Liability:

Insurance Services Office form number CG 0001 (Ed. 11-88) covering COMMERCIAL GENERAL LIABILITY. The permittee shall maintain limits no less than \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage.

2. Deductibles and Self-Insured Retentions

The deductible and/or self-insured retention of the policies shall not limit or apply to the permittee's liability to the County and shall be the sole responsibility of the permittee.

3. Other Insurance Provisions

The insurance policies required in this permit are to contain, or be endorsed to contain the following provisions

a. General Liability Policy:

1. The County, its officers, officials, employees and agents are to be covered as insured as respects liability arising out of activities performed by or on behalf of the permittee in connection with this permit.
2. Insurance coverage shall be primary insurance as respects the County, its officers, officials, employees and agents. Any insurance and/or self-insurance maintained by the County, its officers, officials, employees or agents should not contribute with the permittee's insurance or benefit the permittee in any way.

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15n. INSURANCE CONTINUED:

3. The permittee's insurance shall apply separately to each insured against whom a claim is made and/or lawsuit is brought, except with respect to the limits of the insurer's liability.

b. All Policies:

Coverage shall not be suspended, voided, cancelled, reduced in coverage or in limits prior to the expiration date of this special use permit, unless forty-five (45) days prior notice, return receipt requested, has been given to the County.

4. Acceptability of Insurers

Unless otherwise approved by the County, insurance is to be placed with insurers with a Bests' rating of no less than A: VIII, or, if not rated with Bests', with minimum surpluses the equivalent of Bests' surplus size VIII.

5. Verification of Coverage

The permittee shall furnish the King County Real Property Division with certificates of insurance and endorsements required by this permit. The County reserves the right to require complete, certified copies of all required insurance policies at any time.

6. Municipal or State Agency Provision

If the Permittee is a Municipal Corporation or an agency of the State of Washington and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this section.



King County

Facilities Management Division

Real Estate Services Section

Department of Executive Services

King County Administration Building

500 Fourth Avenue, Room 500

Seattle, WA 98104-2337

206-296-7470 206-296-0196 Fax

TTY Relay: 711

July 18, 2006

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Attention: Dan Berlin

**RE: Special Use Permit S-64-06 – To Perform Contamination Clean
Up Activities.**

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Sincerely,



Bernard Thompson
Permit and Franchise Supervisor

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Enclosure: Special Use Permit S-64-06

KING COUNTY
Department of Construction and Facilities Management
Property Services Division
500 King County Administration Building
500 Fourth Avenue
Seattle, WA 98104 (206) 296-7456 FAX 296-0196

SPECIAL USE PERMIT
Use of County Owned Property

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- b. BNSF agrees to locate all permanent construction of extraction and monitoring wells, and any other cleanup-project structures, outside the flood control levee structure.
- c. BNSF agrees to designate an "exclusion zone" as necessary for safe completion of the cleanup project. The "exclusion zone" may include lands encompassed by King County's river protection easement rights. Subject to the terms of section d below, King County will respect the regulatory limitations that accompany designation of the "exclusion zone," and King County staff will stay outside that boundary while work is being done.
- d. BNSF agrees to provide for King County access to the entire levee structure at any time such access is requested. This provision applies both outside and within the "exclusion zone" addressed above. Immediately upon request by King County, and for as long as King County finds necessary, BNSF agrees to take whatever actions that might be required in order to eliminate any "exclusion zone" restrictions or any other project-related hindrance from any part of the levee structure. BNSF agrees to hold King County as well as its staff harmless for any costs and or liabilities associated with any work stoppage or delay caused by the County's use of the easement rights area or with any other actions by King County within the easement rights area that have impacts on the oil contamination remediation project.
- e. BNSF acknowledges responsibility for all aspects of design, construction, and quality control to fully replace all flood control function, equivalent to or better than previous condition, in all areas where the cleanup project involves removal and replacement of the existing levee structure.
- f. BNSF agrees to guarantee construction of the replacement levee, and to post a bond in the amount of \$1,125,000 in support of the performance guarantee. The bond may be used, in whole or in part, at the sole discretion of King County, to fund any aspect of levee completion.

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15. SPECIAL TERMS AND CONDITIONS CONTINUED:

- g. BNSF agrees to provide a five-year defect and maintenance guarantee of the materials, workmanship, design, maintenance and operation of the replacement levee structure. This five-year guarantee is to begin when King County approves that construction of the replacement levee is complete. During the guarantee period, BNSF acknowledges and accepts responsibility for any maintenance or repair that may be required in King County's sole discretion.
- h. BNSF agrees to post a bond in the amount of \$337,500 in support of the defect and maintenance guarantee. The bond may be used, in whole or in part, at the sole discretion of King County, to fund any levee maintenance or repair during the guarantee period.
- i. During the defect and maintenance guarantee period, King County staff will periodically inspect the levee structure. King County shall provide notice to BNSF when maintenance and/or repairs are necessary, and will specify a reasonable timeframe for such work to be completed. In the event that BNSF does not complete such maintenance and/or repair, King County may perform such work upon prior notice to BNSF. If this occurs, BNSF agrees to reimburse King County for any and all costs incurred.
- j. BNSF acknowledges responsibility for remediation of oil contamination within the easement rights area, including the levee structure. BNSF further acknowledges responsibility for all costs associated with the remediation and cleanup of this contamination. If flood or other conditions cause King County to take actions that King County deems to be appropriate because of the remediation and cleanup work, BNSF agrees to reimburse King County for all of its costs.
- k. BNSF agrees to provide all appropriate safety training for all King County staff whose assignments require readiness for emergency action in the area of contamination. The training will be sufficient to satisfy all regulatory requirements applicable to excavation of the contaminated materials in the levee and the surrounding area. King County will identify staff for participation in this training, which will be provided each year until the remediation is complete and the levee is free of contamination. BNSF further agrees that direct and indirect costs of staff attendance at this training are fully reimbursable under section e above.

BURLINGTON NORTHERN RAILWAY
SPECIAL USE PERMIT
S-64-06

15. SPECIAL TERMS AND CONDITIONS CONTINUED:

1. BNSF shall protect, defend, indemnify and save harmless King County, its officers, officials, employees and agents, while acting within the scope of their employment from any and all costs, claims, judgments, penalties, and/or awards of damages, arising out of or in any way resulting from BSNF's, its employee's or agent's, acts or omissions at or associated with the easement rights area.
- m. King County reserves the right to set additional terms as unforeseen conditions may warrant.

15n. INSURANCE:

By the date of issuance of this permit, the permittee shall procure and maintain, for the duration of this permit, insurance or coverage against claims for injuries to persons or damages to property which may arise from and in connection with the rights and privileges granted by this permit and/or the performance of work hereunder by the permittee, his agents, representatives, employees and/or subcontractors.

By requiring such minimum insurance coverage, the County shall not be deemed or construed to have assessed the risks that may be applicable to the Contractor under this contract. The Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

Nothing contained within these insurance requirements shall be deemed to limit the scope, application and/or limits of the coverage afforded, which coverage will apply to each insured to the full extent provided by the terms and conditions of the policy(s). Nothing contained within this provision shall affect and/or alter the application of any other provision contained within this Agreement.

For All Coverages: The cost of such insurance shall be paid by the permittee. Each insurance policy shall be written on an "Occurrence Form."

1. Minimum Scope and Limits of Insurance

Coverage shall be at least as broad as:

General Liability:

Insurance Services Office form number CG 0001 (Ed. 11-88) covering COMMERCIAL GENERAL LIABILITY. The permittee shall maintain limits no less than \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage.

2. Deductibles and Self-Insured Retentions

The deductible and/or self-insured retention of the policies shall not limit or apply to the permittee's liability to the County and shall be the sole responsibility of the permittee.

3. Other Insurance Provisions

The insurance policies required in this permit are to contain, or be endorsed to contain the following provisions

a. General Liability Policy:

1. The County, its officers, officials, employees and agents are to be covered as insured as respects liability arising out of activities performed by or on behalf of the permittee in connection with this permit.
2. Insurance coverage shall be primary insurance as respects the County, its officers, officials, employees and agents. Any insurance and/or self-insurance maintained by the County, its officers, officials, employees or agents should not contribute with the permittee's insurance or benefit the permittee in any way.

15n. INSURANCE CONTINUED:

3. The permittee's insurance shall apply separately to each insured against whom a claim is made and/or lawsuit is brought, except with respect to the limits of the insurer's liability.

- b. All Policies:

Coverage shall not be suspended, voided, cancelled, reduced in coverage or in limits prior to the expiration date of this special use permit, unless forty-five (45) days prior notice, return receipt requested, has been given to the County.

4. Acceptability of Insurers

Unless otherwise approved by the County, insurance is to be placed with insurers with a Bests' rating of no less than A: VIII, or, if not rated with Bests', with minimum surpluses the equivalent of Bests' surplus size VIII.

5. Verification of Coverage

The permittee shall furnish the King County Real Property Division with certificates of insurance and endorsements required by this permit. The County reserves the right to require complete, certified copies of all required insurance policies at any time.

6. Municipal or State Agency Provision

If the Permittee is a Municipal Corporation or an agency of the State of Washington and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this section.

Appendix E

Discharge Monitoring Reports and Notification of Potential Non-Compliance



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

Letter of Transmittal

TO: Chris Smith, Washington Dept of Ecology DATE: July 13, 2006
RE: BNSF Skykomish Cleanup Site Discharge Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	Description
1	July 13, 2006	BNSF Skykomish Cleanup Site (WA-0032123) Discharge Monitoring Report
1	July 26, 2005	Delegation of Authority – Environmental Permits

☐ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review & Comment ☐ Other: _____

Remarks:

Attached is the Discharge Monitoring Report for the June 2006 monitoring period. Also attached is a letter delegating signature authority to Bruce Sheppard.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in dark ink, appearing to read "Diann Strom", written over a horizontal line.

Diann Strom, Staff Geologist

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology (DMR only)
Bruce Sheppard, BNSF
Halal Voges, RETEC
Steve Howard, RETEC
Dennis Metz, RETEC (DMR only)
RETEC file

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	06	01	2006	06	30

NOTE: Read instructions before completing this form.

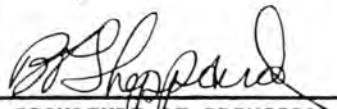
Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE ☒	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****		GPM	*****	*****	*****	***		
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****		GPM	*****	*****	*****	***		
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****		mg/L		
	Permit Requirement	*****	*****		*****	*****	0.1		07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****		YES/		
	Permit Requirement	*****	*****		*****	*****	REPORT	NO	07/07	VISUAL
pH	Sample Measurement	*****	*****	***		*****		STD.		
	Permit Requirement	*****	*****		6.5	*****	8.5	UNIT	01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***		*****	*****	mg/L		
	Permit Requirement	*****	*****		8	*****	*****		01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****		NTU	*****	*****	*****	***		
	Permit Requirement	*****	REPORT		*****	*****	*****		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard, Manager of Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER CODE

DATE

06/07/13
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

6374

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	06	01	2006	06	30

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE	☒

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****		NTU	*****	*****	*****	***			
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****		NTU	*****	*****	*****	***			
	Permit Requirement	*****	5		*****	*****	*****			01/07	GRAB
BENZENE	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	1.2			01/07	GRAB
BTEX	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	1.00			01/07	GRAB
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	REPORT			01/07	GRAB
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	208			01/07	GRAB
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	12.5			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Bruce Sheppard, Manager of Environmental
TYPED OR PRINTED Remediation

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL
ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION
IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT
QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE
INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR
PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY
RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION
SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE,
ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE
SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR
KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER
CODE

DATE

06/07/13
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	06	01	2006	06	30

NOTE: Read instructions before
completing this form.

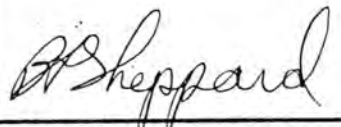
Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE ☒

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	360		01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	2400		01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	640		01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	160		01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	480		01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Bruce Sheppard, Manager of Environmental Remediation
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER
CODE

DATE

06/07/13
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	06	01	2006	06	30

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE ☒

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
INDENO (1, 2, 3- cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	643		01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****		ug/L		
	Permit Requirement	*****	*****		*****	*****	90.2		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Bruce Sheppard, Manager of Environmental Remediation
TYPED OR PRINTED Name

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

B Sheppard
SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER
CODE

DATE

06/07/13
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

July 26, 2005

From: M. A. Schulze, Vice President Safety, Training & Operations Support

To: To Whom It May Concern

Re: Delegation of Authority – Environmental Permits

The following personnel are delegated the authority to sign all environmental permits as related to operations and remediation projects for the Burlington Northern Santa Fe Railway Company:

J. L. Anderson, Manager Environmental Operations, Seattle, WA
R. C. Buhrman, Manager Environmental Operations, Lincoln, NE
M. E. Clift, Manager Environmental Operations, FT. Worth, TX
J. M. Cunningham, Manager Environmental Operations, Kansas City, KS
D. G. Girard, Manager Environmental Operations, Topeka, KS
D. L. Magers, Manager Environmental Operations, Springfield, MO
R. D. Malleck, Manager Environmental Operations, Topeka, KS
J. W. Meldrum, Manager Environmental Operations, Denver, CO
M. J. Perrodin, Manager Environmental Operations, Havre, MT
M. P. Graham, Manager Environmental Remediation, San Bernardino, CA
J. M. McDonough, Manager Environmental Remediation, Kansas City, KS
B. A. Sheppard, Manager Environmental Remediation, Seattle, WA
D. M. Smith, Manager Environmental Remediation, Helena, MT
R. E. Werner, Manager Environmental Remediation, FT. Worth, TX
D.C. Clark, Director Environmental Remediation, Topeka, KS
M. L. Burda, Director Environmental Operations, FT. Worth, TX
M. P. Stehly, AVP Environmental & Research Dev, FT. Worth, TX

Cc:	P. Nehring	R. E. Light	J. T. Obermiller
	J. L. Anderson	R. C. Buhrman	M. E. Clift
	J. M. Cunningham	D. G. Girard	M. P. Graham
	D. L. Magers	R. D. Malleck	J. W. Meldrum
	P. J. Perrodin	J. M. McDonough	B. A. Sheppard
	D. M. Smith	R. E. Werner	D. C. Clark
	M. L. Burda	M. P. Stehly	



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

Letter of Transmittal

TO: Chris Smith, Washington Dept of Ecology DATE: August 14, 2006
RE: BNSF Skykomish Cleanup Site Discharge
Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	Description
1	August 14, 2006	BNSF Skykomish Cleanup Site (WA-0032123) Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review & Comment ☐ Other: _____

Remarks:

Attached is the Discharge Monitoring Report for the July 2006 monitoring period.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in dark ink, appearing to read "Diann Strom", is written over a horizontal line.

Diann Strom, Staff Geologist

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology
Bruce Sheppard, BNSF
Halal Voges, RETEC
Dennis Metz, RETEC
RETEC file

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD							
YEAR	MO	DAY	FROM	TO	YEAR	MO	DAY
2006	7	1			2006	7	31

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	450	GPM	*****	*****	*****	***	0	Cont.	Meter
	Permit Requirement	*****	500		*****	*****	*****			CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	450	GPM	*****	*****	*****	***	0	Cont	Meter
	Permit Requirement	*****	500		*****	*****	*****			CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****	<0.1	mg/L	0	7/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.1			07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****	No	YES/NO	0	7/7	Visual
	Permit Requirement	*****	*****		*****	*****	REPORT			07/07	VISUAL
pH	Sample Measurement	*****	*****	***	6.99	*****	6.99	STD. UNIT	0	1/7	Grab
	Permit Requirement	*****	*****		6.5	*****	8.5			01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***	8.4	*****	*****	mg/L	0	1/7	Grab
	Permit Requirement	*****	*****		8	*****	*****			01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****	1.63	NTU	*****	*****	*****	***	0	7/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB

NAME/TITLE <u>PRINCIPAL EXECUTIVE OFFICER</u>	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
 <u>Bruce Sheppard, Manager Environmental</u> TYPED OR PRINTED <u>Remedial</u>			(206) 625-6035	08/08/14
			AREA NUMBER CODE	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

See Attachment A - Notes for July 2006 Monitoring Period
Attachment B- Laboratory Analytical Reports

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A

SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE MONITORING REPORT(DMR)

WA-0032123

PERMIT NUMBER

001

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
2006 7 1 2006 7 31

NOTE: Read instructions before completing this form.

Discharge Location

Lat 47° 42' 37" N

Long 121° 21' 44" W

NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			Units	No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum				
EFFLUENT TURBIDITY (2)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****				
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****	-0.63	NTU	*****	*****	*****	***	0	NA	Grab
	Permit Requirement	*****	5*		*****	*****	*****				
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	1.2				
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	100				
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****	ND*	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	REPORT				
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****	ND*	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	208				
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	12.5				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard, Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER CODE

DATE

06/08/14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

ND - Not detected above method reporting limit (MRL)

NA - Not Applicable

ND* - Not detected above the method detection limit (MDL)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

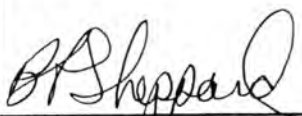
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	7	1	2006	7	31

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			
INDENO (1, 2, 3-cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	643			
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	90.2			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Bruce Sheppard, Manager of Environmental TYPED OR PRINTED Name			(206) 625-6035 AREA NUMBER CODE	06/08/14 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ND- Not detected above method reporting limit (MRL)

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A

SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	FROM	TO	DAY
2006	7	1		2006	7 31

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			Units	No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum				
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	360			01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	2400			01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	640			01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	160			01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	480			01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard, Manager Environmental
TYPED OR PRINTED Name

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

B. Sheppard
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER CODE

DATE

06/08/14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TR - MEANS TOTAL RECOVERABLE

ND - Not detected above method reporting limit (MRL)

Attachment A
Notes for July 2006 Monitoring Period

Attachment A

Notes for July 2006 Monitoring Period

Discharge of water from the water treatment system began on Friday, July 21. Therefore, for the July monitoring period, the system operated for 11 days (July 21 – 31). RETEC selected Monday as the day to collect weekly NPDES discharge samples. The first discharge sample that was collected for laboratory analysis of the parameters specified in the permit was collected on Monday, July 24. The following Monday, July 31, the system was shut down (not discharging) due to backwashing operations. Since July 31 was the last day of July, it was not possible to obtain another discharge sample during July. A sample was collected Wednesday of that week, after the system resumed operations, however that date is August 2 and data from that sampling event will be submitted with the DMR for August 2006. Relevant portions of treatment system performance data collected by the contractor (Wilder) is provided to supplement RETEC's discharge data such that most parameters required to be monitored by the permit were measured according to the frequency required (e.g., weekly), or more frequently than required by the permit.

Attachment B
Laboratory Analytical Reports

August 14, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 07/24/06 14:07.
The following list is a summary of the Work Orders contained in this report, generated on 08/14/06 12:33.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPG0544	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/14/06 12:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-NPDEF-EFF-072406	BPG0544-01	Water	07/24/06 08:15	07/24/06 14:07
SKY-NPDES-INF-072406	BPG0544-02	Water	07/24/06 08:05	07/24/06 14:07

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPG0544-01 (SKY-NPDEF-EFF-072406)		Water				Sampled: 07/24/06 08:15				
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	6G26022	07/26/06 11:26	07/27/06 11:47	
Lead	*	ND	0.000140	0.00100	*	*	*	*	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/14/06 12:33

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPG0544-01 (SKY-NPDEF-EFF-072406)		Water		Sampled: 07/24/06 08:15						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0404	0.253	mg/l	1x	6G27034	07/27/06 13:38	08/01/06 09:57	
Lube Oil Range Hydrocarbons	"	ND	0.0909	0.505	"	"	"	"	"	
Surrogate(s): 2-FBP		104%		50 - 150 %	"					"
Octacosane		106%		50 - 150 %	"					"
BPG0544-02 (SKY-NPDES-INF-072406)		Water		Sampled: 07/24/06 08:05						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0412	0.258	mg/l	1x	6G27034	07/27/06 13:38	08/01/06 10:26	
Lube Oil Range Hydrocarbons	"	ND	0.0928	0.515	"	"	"	"	"	
Surrogate(s): 2-FBP		102%		50 - 150 %	"					"
Octacosane		104%		50 - 150 %	"					"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPG0544-01 (SKY-NPDEF-EFF-072406)		Water			Sampled: 07/24/06 08:15					
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6G28016	07/28/06 08:18	07/28/06 18:15	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			101%		70 - 130 %	"				"
Toluene-d8			98.5%		75 - 125 %	"				"
4-BFB			99.5%		75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/14/06 12:33

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPG0544-01 (SKY-NPDEF-EFF-072406)		Water		Sampled: 07/24/06 08:15						
Acenaphthene	EPA 8270C-HV1	ND	0.00256	0.0943	ug/l	1x	6G27033	07/27/06 13:27	08/04/06 23:33	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	ND	0.00268	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	ND	0.00395	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	0.00244	0.0943	"	"	"	"	"	
Pyrene	"	ND	0.00230	0.0943	"	"	"	"	"	

TestAmerica - Seattle, WA

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

Kate Haney

Kate Haney, Project Manager



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPG0544-01 (SKY-NPDEF-EFF-072406)		Water			Sampled: 07/24/06 08:15					
pH	EPA 150.1	6.99	—		pH Units	1x	6G26032	07/24/06 13:00	07/24/06 13:00	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6G26031	07/24/06 12:56	07/24/06 12:56	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/14/06 12:33

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6G27034 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6G27034-BLK1)														
Extracted: 07/27/06 13:38														
Diesel Range Hydrocarbons	NWTPH-Dx	0.0613	0.0400	0.250	mg/l	1x	—	—	—	—	—	—	08/01/06 05:02	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	—	—	—	—	—	—	"	
Surrogate(s): 2-FBP		Recovery: 102%		Limits: 50-150%		"							08/01/06 05:02	
Octacosane		105%		50-150%		"							"	
LCS (6G27034-BS1)														
Extracted: 07/27/06 13:38														
Diesel Range Hydrocarbons	NWTPH-Dx	2.02	0.0400	0.250	mg/l	1x	—	2.00	101%	(58-125)	—	—	08/01/06 05:31	
Surrogate(s): 2-FBP		Recovery: 104%		Limits: 50-150%		"							08/01/06 05:31	
Octacosane		107%		50-150%		"							"	
LCS Dup (6G27034-BSD1)														
Extracted: 07/27/06 13:38														
Diesel Range Hydrocarbons	NWTPH-Dx	1.88	0.0400	0.250	mg/l	1x	—	2.00	94.0%	(58-125)	7.18%	(40)	08/01/06 07:30	
Surrogate(s): 2-FBP		Recovery: 96.4%		Limits: 50-150%		"							08/01/06 07:30	
Octacosane		105%		50-150%		"							"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6G26022 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6G26022-BLK1)														
Extracted: 07/26/06 11:26														
Lead	EPA 200.8	ND	0.000140	0.00100	mg/l	1x	—	—	—	—	—	—	07/27/06 11:53	
Arsenic	*	ND	0.000430	0.00100	*	*	—	—	—	—	—	—	*	
LCS (6G26022-BS1)														
Extracted: 07/26/06 11:26														
Arsenic	EPA 200.8	0.0815	0.000430	0.00100	mg/l	1x	—	0.0800	102%	(85-115)	—	—	07/27/06 11:24	
Lead	*	0.0803	0.000140	0.00100	*	*	—	*	100%	*	—	—	*	
Duplicate (6G26022-DUP1)														
QC Source: BPG0544-01 Extracted: 07/26/06 11:26														
Lead	EPA 200.8	ND	0.000140	0.00100	mg/l	1x	ND	—	—	—	NR	(20)	07/27/06 11:36	
Arsenic	*	ND	0.000430	0.00100	*	*	ND	—	—	—	NR	*	*	
Matrix Spike (6G26022-MS1)														
QC Source: BPG0544-01 Extracted: 07/26/06 11:26														
Lead	EPA 200.8	0.0794	0.000140	0.00100	mg/l	1x	ND	0.0800	99.3%	(75-125)	—	—	07/27/06 11:30	
Arsenic	*	0.0799	0.000430	0.00100	*	*	ND	*	99.9%	*	—	—	*	
Matrix Spike (6G26022-MS2)														
QC Source: BPG0543-01 Extracted: 07/26/06 11:26														
Lead	EPA 200.8	0.0870	0.000140	0.00100	mg/l	1x	0.000260	0.0800	108%	(75-125)	—	—	07/27/06 12:10	
Arsenic	*	0.134	0.000430	0.00100	*	*	0.0524	*	102%	*	—	—	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6G28016 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6G28016-BLK1)										Extracted: 07/28/06 08:18				
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	07/28/06 10:37	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 102% Limits: 70-130% " 07/28/06 10:37</i>														
<i>Toluene-d8 98.5% 75-125% " "</i>														
<i>4-BFB 98.5% 75-125% " "</i>														
LCS (6G28016-BS1)										Extracted: 07/28/06 08:18				
Benzene	EPA 8260B	22.1	0.114	0.500	ug/l	1x	—	20.0	110%	(80-120)	—	—	07/28/06 09:40	
Ethylbenzene	"	21.3	0.125	0.500	"	"	—	"	106%	"	—	—	"	
Toluene	"	21.6	0.127	0.500	"	"	—	"	108%	"	—	—	"	
Total Xylenes	"	64.8	0.298	3.00	"	"	—	60.0	108%	"	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.5% Limits: 70-130% " 07/28/06 09:40</i>														
<i>Toluene-d8 98.5% 75-125% " "</i>														
<i>4-BFB 99.0% 75-125% " "</i>														
LCS Dup (6G28016-BSD1)										Extracted: 07/28/06 08:18				
Benzene	EPA 8260B	22.6	0.114	0.500	ug/l	1x	—	20.0	113%	(80-120)	2.24%	(20)	07/28/06 10:08	
Ethylbenzene	"	21.8	0.125	0.500	"	"	—	"	109%	"	2.32%	"	"	
Toluene	"	22.1	0.127	0.500	"	"	—	"	110%	"	2.29%	"	"	
Total Xylenes	"	66.2	0.298	3.00	"	"	—	60.0	110%	"	2.14%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 100% Limits: 70-130% " 07/28/06 10:08</i>														
<i>Toluene-d8 99.5% 75-125% " "</i>														
<i>4-BFB 99.5% 75-125% " "</i>														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6G27033 **Water Preparation Method:** EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6G27033-BLK2)														
Extracted: 07/27/06 13:27														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	—	—	—	—	—	—	08/04/06 18:02	
Acenaphthylene	"	ND	0.00252	0.100	"	"	—	—	—	—	—	—	"	
Anthracene	"	ND	0.00284	0.100	"	"	—	—	—	—	—	—	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	—	—	—	—	—	—	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	—	—	—	—	—	—	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	—	—	—	—	—	—	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	—	—	—	—	—	—	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	—	—	—	—	—	—	"	
Chrysene	"	ND	0.00188	0.0100	"	"	—	—	—	—	—	—	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	—	—	—	—	—	—	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	—	—	—	—	—	—	"	
Fluorene	"	ND	0.00357	0.100	"	"	—	—	—	—	—	—	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	—	—	—	—	—	—	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	—	—	—	—	—	—	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	—	—	—	—	—	—	"	
Naphthalene	"	ND	0.00419	0.100	"	"	—	—	—	—	—	—	"	
Phenanthrene	"	ND	0.00259	0.100	"	"	—	—	—	—	—	—	"	
Pyrene	"	ND	0.00244	0.100	"	"	—	—	—	—	—	—	"	

LCS (6G27033-BS2)														
Extracted: 07/27/06 13:27														
Acenaphthene	EPA 8270C-HVI	14.5	0.0271	1.00	ug/l	10x	—	20.0	72.5%	(44-125)	—	—	08/04/06 18:35	
Acenaphthylene	"	13.7	0.0252	1.00	"	"	—	"	68.5%	(51-125)	—	—	"	
Anthracene	"	18.6	0.0284	1.00	"	"	—	"	93.0%	(50-125)	—	—	"	
Benzo (a) anthracene	"	14.1	0.0158	0.100	"	"	—	"	70.5%	"	—	—	"	
Benzo (a) pyrene	"	15.0	0.0315	0.100	"	"	—	"	75.0%	(47-125)	—	—	"	
Benzo (b) fluoranthene	"	14.5	0.0206	0.100	"	"	—	"	72.5%	(50-125)	—	—	"	
Benzo (k) fluoranthene	"	14.4	0.0186	0.100	"	"	—	"	72.0%	(46-125)	—	—	"	
Benzo (ghi) perylene	"	15.2	0.0296	1.00	"	"	—	"	76.0%	(49-125)	—	—	"	
Chrysene	"	14.7	0.0188	0.100	"	"	—	"	73.5%	(53-125)	—	—	"	
Dibenz (a,h) anthracene	"	16.5	0.0250	0.100	"	"	—	"	82.5%	(47-125)	—	—	"	
Fluoranthene	"	16.6	0.0196	1.00	"	"	—	"	83.0%	(55-125)	—	—	"	
Fluorene	"	16.0	0.0357	1.00	"	"	—	"	80.0%	(52-125)	—	—	"	
Indeno (1,2,3-cd) pyrene	"	16.0	0.0246	0.100	"	"	—	"	80.0%	(49-125)	—	—	"	
1-Methylnaphthalene	"	15.9	0.0223	1.00	"	"	—	"	79.5%	(37-125)	—	—	"	
2-Methylnaphthalene	"	15.1	0.0228	1.00	"	"	—	"	75.5%	(40-125)	—	—	"	
Naphthalene	"	17.8	0.0419	1.00	"	"	—	"	89.0%	(42-125)	—	—	"	
Phenanthrene	"	14.9	0.0259	1.00	"	"	—	"	74.5%	(47-125)	—	—	"	
Pyrene	"	14.7	0.0244	1.00	"	"	—	"	73.5%	"	—	—	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/14/06 12:33

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6G27033 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (6G27033-BSD2)										Extracted: 07/27/06 13:27				
Acenaphthene	EPA 8270C-HVI	14.1	0.0271	1.00	ug/l	10x	—	20.0	70.5%	(44-125)	2.80%	(35)	08/04/06 19:08	
Acenaphthylene	"	13.2	0.0252	1.00	"	"	—	"	66.0%	(51-125)	3.72%	"	"	
Anthracene	"	17.9	0.0284	1.00	"	"	—	"	89.5%	(50-125)	3.84%	"	"	
Benzo (a) anthracene	"	13.5	0.0158	0.100	"	"	—	"	67.5%	"	4.35%	"	"	
Benzo (a) pyrene	"	14.6	0.0315	0.100	"	"	—	"	73.0%	(47-125)	2.70%	"	"	
Benzo (b) fluoranthene	"	12.6	0.0206	0.100	"	"	—	"	63.0%	(50-125)	14.0%	"	"	
Benzo (k) fluoranthene	"	16.3	0.0186	0.100	"	"	—	"	81.5%	(46-125)	12.4%	"	"	
Benzo (ghi) perylene	"	14.9	0.0296	1.00	"	"	—	"	74.5%	(49-125)	1.99%	"	"	
Chrysene	"	14.3	0.0188	0.100	"	"	—	"	71.5%	(53-125)	2.76%	"	"	
Dibenz (a,h) anthracene	"	16.0	0.0250	0.100	"	"	—	"	80.0%	(47-125)	3.08%	"	"	
Fluoranthene	"	16.2	0.0196	1.00	"	"	—	"	81.0%	(55-125)	2.44%	"	"	
Fluorene	"	15.1	0.0357	1.00	"	"	—	"	75.5%	(52-125)	5.79%	"	"	
Indeno (1,2,3-cd) pyrene	"	15.6	0.0246	0.100	"	"	—	"	78.0%	(49-125)	2.53%	"	"	
1-Methylnaphthalene	"	14.3	0.0223	1.00	"	"	—	"	71.5%	(37-125)	10.6%	"	"	
2-Methylnaphthalene	"	13.7	0.0228	1.00	"	"	—	"	68.5%	(40-125)	9.72%	"	"	
Naphthalene	"	15.9	0.0419	1.00	"	"	—	"	79.5%	(42-125)	11.3%	"	"	
Phenanthrene	"	14.0	0.0259	1.00	"	"	—	"	70.0%	(47-125)	6.23%	"	"	
Pyrene	"	14.1	0.0244	1.00	"	"	—	"	70.5%	"	4.17%	"	"	

TestAmerica - Seattle, WA

Kate Haney
 Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/14/06 12:33
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6G26031	Water Preparation Method: General Preparation
-------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 07/24/06 12:56														
Blank (6G26031-BLK1)														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	07/24/06 12:56	
Extracted: 07/24/06 12:56														
LCS (6G26031-BS1)														
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.5	98.6%	(90-110)	—	—	07/24/06 12:56	
Extracted: 07/24/06 12:56														
Duplicate (6G26031-DUP1)														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	7.41%	(20)	07/24/06 12:56	

QC Batch: 6G26032	Water Preparation Method: General Preparation
-------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 07/24/06 13:00														
Duplicate (6G26032-DUP1)														
pH	EPA 150.1	7.03	—		pH Units	1x	6.99	—	—	—	0.571%	(10)	07/24/06 13:00	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

08/14/06 12:33

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BPG0544																																																										
		Laboratory: Test America Address: 11720 North Creek Pkwy N #400 City/State/ZIP: Bothell WA 98011		Project Manager: Kate Harey Phone: 425-422-9200 Fax:		SHIPMENT INFORMATION																																																										
BNSF PROJECT INFORMATION		CONSULTANT INFORMATION		Project Number: BN050-19390-220																																																												
BNSF Project Number: BNSF Project Name: Sky Komish Levee BNSF Contact: Bruce Sheppard		Project City: Sky Komish Company: The RPT Group Inc Address: 1011 SW Klickitat Way #207 City/State/ZIP: Seattle WA 98134		Project Manager: Halah Vogue/S. Howard Email: Phone: 206-624-1349 Fax: 206-624-2839																																																												
TURNAROUND TIME ☐ 1-day Rush ☐ 5- to 8-day Rush ☐ 2-day Rush ☒ Standard 10-Day ☐ 3-day Rush ☐ Other		DELIVERABLES ☐ Other Deliverables? ☐ BNSF Standard (Level II) ☐ Level III ☒ EDD Reg. Format? ☐ Level IV		METHODS FOR ANALYSIS <table border="1"> <tr> <th>PH, Turbidity</th> <th>BTEX</th> <th>NWTPH-Dx</th> <th>As, Pb, Cu</th> <th>PAH*</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				PH, Turbidity	BTEX	NWTPH-Dx	As, Pb, Cu	PAH*															X	X	X	X	X																	X																
PH, Turbidity	BTEX	NWTPH-Dx	As, Pb, Cu	PAH*																																																												
X	X	X	X	X																																																												
		X																																																														
SAMPLE INFORMATION		Comments and Special Analytical Requirements:																																																														
Sample Identification	Containers	Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix																																																									
SKY-NP DES-EFF-072406	9	7/24/06	0815	SA	N	G	W																																																									
SKY-NP DES-INF-072406	2	7/24/06	0855	DM	N	G	W																																																									
RLs: Turbidity: 5 NTU, Benzene 1.2 µg/L, BTEX: 100 µg/L, NWTPH-Dx - same as Sky Komish gnl Total Pb: 17.5 µg/L, Total As: 360 µg/L, Anthracene: 2400 µg/L, Fluorene 640 µg/L, Naphthalene 160 µg/L, pyrene 480 µg/L, Benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene: 0.0028 µg/L or 0.01 µg/L each, Acenaphthene: 643 µg/L, fluoranthene 90.2 µg/L per c-mail																																																																
Requisitioned By: Neal Salinas Requisitioned By: Heather Bean Requisitioned By:								Date/Time: 7/24/06 12:33 Date/Time: 7/24/06 1407 Date/Time: Date/Time: Date/Time:																																																								
Received by Laboratory:								Lab Custody Intact? ☐ Yes ☐ No Custody Seal No.: BNSF COC No.:																																																								

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05



CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 7/28/2006
CCIL JOB #: 0607118
DATE RECEIVED: 7/25/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: TRAVIS WALKEN
CLIENT PROJECT ID: E6016-SKYKOMISH LEVEE REMEDIATION
CLIENT SAMPLE ID: 7/24/2006 18:30 DISCHARGE-21
CCIL SAMPLE #: -10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/26/2006	DLÇ
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/26/2006	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 7/28/2006
CCIL JOB #: 0607118
DATE RECEIVED: 7/25/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: TRAVIS WALKEN
CLIENT PROJECT ID: E6016-SKYKOMISH LEVEE REMEDIATION
CLIENT SAMPLE ID: 7/24/2006 18:30 DISCHARGE14
CCIL SAMPLE #: -14

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8260	ND(<1)	UG/L	7/27/2006	CCN
Toluene	EPA-8260	ND(<1)	UG/L	7/27/2006	CCN
Ethylbenzene	EPA-8260	ND(<1)	UG/L	7/27/2006	CCN
o-Xylene	EPA-8260	ND(<1)	UG/L	7/27/2006	CCN
m,p-Xylene	EPA-8260	ND(<2)	UG/L	7/27/2006	CCN

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 7/28/2006
CCIL JOB #: 0607118
DATE RECEIVED: 7/25/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: TRAVIS WALKEN
CLIENT PROJECT ID: E6016-SKYKOMISH LEVEE REMEDIATION
CLIENT SAMPLE ID: 7/24/2006 18:30 DISCHARGE-7
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Phenanthrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[A]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 7/31/2006
CCIL JOB #: 0607144
DATE RECEIVED: 7/28/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: SKYKOMISH LEVEE REMEDIATION #E6016
CLIENT SAMPLE ID: 7/26/2006 16:30 DISCHARGE-72606
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/28/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/28/2006	DLC
Benzene	EPA-8260	ND(<1)	UG/L	7/28/2006	CCN
Toluene	EPA-8260	ND(<1)	UG/L	7/28/2006	CCN
Ethylbenzene	EPA-8260	ND(<1)	UG/L	7/28/2006	CCN
o-Xylene	EPA-8260	ND(<1)	UG/L	7/28/2006	CCN
m,p-Xylene	EPA-8260	ND(<2)	UG/L	7/28/2006	CCN
Naphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Phenanthrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Benzo[A]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/31/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/31/2006	RAL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 7/28/2006
CCIL JOB #: 0607130
DATE RECEIVED: 7/27/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: SKYKOMISH LEVEE REMEDIATION
CLIENT SAMPLE ID: 7/27/2006 16:00 DISCHARGE-PAH
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Phenanthrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo(A)Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	7/27/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	7/27/2006	RAL

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** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 8/1/2006
CCIL JOB #: 0607151
DATE RECEIVED: 7/31/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: KARL YOST
CLIENT PROJECT ID: SKYKOMISH LEVEE REMEDIATION #E6016
CLIENT SAMPLE ID: 7/28/2006 17:00 DISCHARGE-72806
CCIL SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	7/31/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	7/31/2006	DLC
Benzene	EPA-8260	ND(<1)	UG/L	7/31/2006	CCN
Toluene	EPA-8260	ND(<1)	UG/L	7/31/2006	CCN
Ethylbenzene	EPA-8260	ND(<1)	UG/L	7/31/2006	CCN
o-Xylene	EPA-8260	ND(<1)	UG/L	7/31/2006	CCN
m,p-Xylene	EPA-8260	ND(<2)	UG/L	7/31/2006	CCN
Naphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Phenanthrene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Benzo[A]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	8/1/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/1/2006	RAL

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** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

Letter of Transmittal



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

TO: Chris Smith, Washington Dept of Ecology DATE: September 14, 2006
RE: BNSF Skykomish Cleanup Site Discharge Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	Description
1	September 14, 2006	BNSF Skykomish Cleanup Site (WA-0032123) Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review & Comment ☐ Other: _____

Remarks:

Attached is the Discharge Monitoring Report for the August 2006 monitoring period.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in black ink, appearing to read "Diann Strom", written over a horizontal line.

Diann Strom, Staff Geologist

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology
Bruce Sheppard, BNSF
Halal Voges, RETEC
Dennis Metz, RETEC
RETEC file

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	08	01			

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE ☐

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	468.5	GPM	*****	*****	*****	0	Cont.	Meter
	Permit Requirement	*****	500		*****	*****	*****			
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	468.5	GPM	*****	*****	*****	0	Cont.	Meter
	Permit Requirement	*****	500		*****	*****	*****			
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****	< 0.15	0	7/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.1			
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****	No	0	7/7	Visual
	Permit Requirement	*****	*****		*****	*****	REPORT			
pH	Sample Measurement	*****	*****	***	6.81	*****	7.67	0	1/7	Grab
	Permit Requirement	*****	*****		6.5	*****	8.5			
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***	8.34	*****	*****	0	1/7	Grab
	Permit Requirement	*****	*****		8	*****	*****			
BACKGROUND TURBIDITY (1)	Sample Measurement	*****	0.99	NTU	*****	*****	*****	0	1/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Bruce Sheppard, Manager Environmental Remediation TYPED OR PRINTED			206,625,6035	2006 09 14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

Attachment A Chitosan Acetate Explanation
Attachment B Organic and Inorganic Data Verification Report
Attachment C Laboratory Reports

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE MONITORING REPORT(DMR)

WA-0032123 001
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
2006 08 01 2006 08 31

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****				
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	5*		*****	*****	*****				
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	1.2				
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	100				
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****	331	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	REPORT				
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****	99.6	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	208				
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	ND*	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	12.5				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

B. Sheppard
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

(206) 625-6035
AREA NUMBER CODE

2006 09 14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

ND* = Although laboratory reported concentrations above method detection limit (MDL) and method reporting limit (MRL), data validator qualified results as non-detect (ND) due to evidence of laboratory contamination. See attached data validation report (Attachment B)

Permittee Name/Address
Include Name/Location (if different)
NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123 001
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
2006 09 01 TO 2006 08 31

NOTE: Read instructions before completing this form.

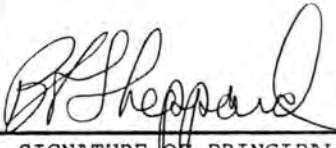
Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	0.8	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	360			01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND*	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	2400			01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	640			01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	160			01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	480			01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

206 1625-6035
AREA NUMBER CODE

DATE

2006 09 14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TR - MEANS TOTAL RECOVERABLE ND = Not detected above method reporting limit (MRL).
ND* = Although lab reported concentrations above method detection limit (MDL) and below method reporting limit (MRL), data validator qualified results as non-detected (ND) due to evidence of laboratory contamination. See attached data validation report (Attachment B)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM 2006	08	01	TO 2006	08	31

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE ☐	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
INDENO (1, 2, 3- cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	0.00522	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	643			01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	90.2			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Bruce Sheppard,
Mandya Environmental Remediation
TYPED OR PRINTED

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AREA NUMBER
CODE

DATE

2006, 09, 14
YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ND = Not detected above method reporting limit (MRL).

Attachment A
Chitosan Acetate Explanation

Attachment A

Chitosan Acetate Explanation

On August 5, 2006, excess chitosan acetate (chitosan) was < 0.1 mg/L for about 18 of 24 hours. Excess ranged from 0.125 to 0.15 during carbon cell backflushing. The average excess for the day was < 0.1 mg/L.

During that day, the chitosan dose was increased in Treatment to lower elevated turbidity in effluent from CB-1 (not discharge). The chitosan residual tested positive ($\sim 0.125 - 0.15$) at 07:20. The chitosan dose rate was reduced immediately upon receipt of test result.

Chitosan acetate was inadvertently not tested on August 12 and 13, 2006.

Attachment B
Organic and Inorganic Data Verification Report

September 13, 2006

**Organic and Inorganic
Data Verification Report**

**BNSF Railway Company
Skykomish Levee**

**Wastewater, Water, with Water QC Samples
August 2006**

Prepared for:

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Project Manager
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Prepared by:

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RETEC Project No.: BN050-19390-220

Overview

The samples analyzed for the BNSF Railway Company, Skykomish Levee sampling event from August 2006 are listed in the Table of Samples Analyzed (page 2). Data verification was performed on ten wastewater samples, three background water samples, and five trip blank samples.

Samples were analyzed by Test America (TA-Bothell), of Bothell, WA. The verified analyses were Benzene, Ethylbenzene, Toluene, and total Xylenes (BTEX) by GC/MS method 8260B; Polynuclear Aromatic Hydrocarbons (PAHs) including 1-methylnaphthalene and 2-methylnaphthalene by GC/MS method 8270C with high volume injection (8270C HVI); Semivolatile Petroleum Products as Diesel Range Hydrocarbons (DRH) and Lube Oil Range Hydrocarbons (LORH) by WDOE NWTPH-Dx method without cleanup; Total Metals (Arsenic and Lead only) by ICP method 200.8; Turbidity by method 180.1; and pH by method 150.1.

The RETEC Analytical Data Verification Checklist is presented as pages 4-9. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic/Inorganic Data Review*, document numbers EPA540/R-99/008 and EPA540/R-04/004 of October 1999 (Organic) and October 2004 (Inorganic), and the *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-04-009, January 2005 (Draft), as they applied to the reported methodology. Washington State Department of Ecology (WDOE) methods were also reviewed as per *WDOE Analytical Methods for Petroleum Hydrocarbons*, ECY 97-602 of June 1997.

The following data components were reviewed during the data verification procedure:

Submitted Deliverables
Chain-of-Custody form(s) and sample integrity
Case Narrative comments, assigned laboratory flags and definitions
Sample results including reporting limits and dilution factors
Holding time
Method blank results
LCS, LCSD (blank spike) results
MS (matrix spike) recoveries
Laboratory duplicate results
Surrogate recoveries
Trip blank results
Electronic data deliverable queries (EDD queries)

Data Verification Qualifiers Assigned During this Review

- J estimated concentration
- N tentative identification
- U evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination

Assigned qualifiers are detailed in the RETEC Analytical Data Verification Checklist and are summarized in the Table of Qualified Analytical Results (page 3).

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use with the qualifications noted.

Table of Samples Analyzed
BNSF Railway Company - Skykomish Levee
Wastewater, Water with Water QC Samples
Test America (TA-Bothell) Laboratory Reports (as listed)
August 2006

Matrix	Sample ID	Sample Date	Sample Time	Lab SDG	Lab Sample ID
Wastewater	SKY-EFF-8/2/6	8/2/2006	14:40	BPH0051	BPH0051-01
Water QC	SKY-TB-8/2/6	8/2/2006		BPH0051	BPH0051-02
Wastewater	SKY-WF-8/2/6	8/2/2006	14:35	BPH0051	BPH0051-03
Wastewater	SKY-EFF-8/9/6	8/9/2006	10:05	BPH0208	BPH0208-01
Wastewater	SKY-INF-8/9/6	8/9/2006	10:00	BPH0208	BPH0208-02
Water QC	SKY-TB-8/9/6	8/9/2006		BPH0208	BPH0208-03
Wastewater	SKY-EFF-8/16/6	8/16/2006	13:15	BPH0381	BPH0381-01
Wastewater	SKY-WF-8/16/6	8/16/2006	13:25	BPH0381	BPH0381-02
Water QC	SKY-TB-8/16/6	8/16/2006		BPH0381	BPH0381-03
Water	SKY-BKGD-8/16/6	8/16/2006	13:30	BPH0381	BPH0381-04
Wastewater	SKY-EFF-082306	8/23/2006	11:30	BPH0545	BPH0545-01
Wastewater	SKY-INF-082306	8/23/2006	11:30	BPH0545	BPH0545-02
Water QC	SKY-TB-082306	8/23/2006		BPH0545	BPH0545-03
Water	SKY-BKGD-082306	8/23/2006	11:21	BPH0545	BPH0545-04
Wastewater	SKY-NPDES-EFF-083006	8/30/2006	not provided	BPH0761	BPH0761-01
Wastewater	SKY-INF-083006	8/30/2006	not provided	BPH0761	BPH0761-02
Water QC	SKY-NPDES-TB-083006	8/30/2006		BPH0761	BPH0761-03
Water	SKY-NPDES-BKGD-08300	8/30/2006	not provided	BPH0761	BPH0761-04

Table of Qualified Analytical Results
BNSF Railway Company - Skykomish Levee
Wastewater (WW), Water (W), with Water QC (WQ) Samples
Test America (TA-Bothell) Laboratory Reports (as listed)
August 2006

Sample ID	Matrix	Lab ID	Method	Dilution	Analyte	Concentration	Qualifier	Reason Code
SKY-EFF-8/2/6	WW	BPH0051-01	200.8	1	Arsenic	0.000770 mg/L	J	< MRL
SKY-EFF-8/2/6	WW	BPH0051-01	8270C HVI	1	Anthracene	< 0.0962 µg/L	U	MB, < MRL - original result was 0.00677 µg/L
SKY-EFF-8/2/6	WW	BPH0051-01	8270C HVI	1	Phenanthrene	< 0.0962 µg/L	U	MB, < MRL - original result was 0.0245 µg/L
SKY-EFF-8/2/6	WW	BPH0051-01	200.8	1	Lead	< 0.00100 mg/L	U	PB, < MRL - original result was 0.000960 mg/L
SKY-WF-8/2/6	WW	BPH0051-03	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.331 mg/L	NJ	pattern, interference
SKY-EFF-8/9/6	WW	BPH0208-01	200.8	1	Arsenic	0.000730 mg/L	J	< MRL
SKY-EFF-8/9/6	WW	BPH0208-01	200.8	1	Lead	< 0.00100 mg/L	U	PB, < MRL - original result was 0.000920 mg/L
SKY-INF-8/9/6	WW	BPH0208-02	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.195 mg/L	J	< MRL
SKY-EFF-8/16/6	WW	BPH0381-01	8270C HVI	1	Acenaphthene	0.00522 µg/L	J	< MRL
SKY-EFF-8/16/6	WW	BPH0381-01	200.8	1	Arsenic	0.000790 mg/L	J	< MRL
SKY-EFF-8/16/6	WW	BPH0381-01	200.8	1	Lead	< 0.00100 mg/L	U	PB, < MRL - original result was 0.000710 mg/L
SKY-WF-8/16/6	WW	BPH0381-02	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.210 mg/L	J	< MRL
SKY-EFF-082306	WW	BPH0545-01	8270C HVI	1	Phenanthrene	< 0.0943 µg/L	U	MB, < MRL - original result was 0.00823 µg/L
SKY-EFF-082306	WW	BPH0545-01	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.0996 mg/L	J	< MRL
SKY-EFF-8/23/06	WW	BPH0545-01	200.8	1	Arsenic	0.000800 mg/L	J	< MRL
SKY-EFF-8/23/06	WW	BPH0545-01	200.8	1	Lead	< 0.00100 mg/L	U	PB, < MRL - original result was 0.000670 mg/L
SKY-INF-082306	WW	BPH0545-02	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.100 mg/L	J	< MRL
SKY-EFF-8/30/06	WW	BPH0761-01	200.8	1	Arsenic	0.000770 mg/L	J	< MRL
SKY-EFF-8/30/06	WW	BPH0761-01	200.8	1	Lead	< 0.00100 mg/L	U	PB, < MRL - original result was 0.000680 mg/L
SKY-INF-083006	WW	BPH0761-02	NWTPH-Dx	1	Diesel Range Hydrocarbons	0.0680 mg/L	J	< MRL

Reason Codes:

< MRL - concentration reported is >= the method detection limit but is < the method reporting limit

Interference - laboratory stated interference from non-target analytes evident, resulting in estimated concentration

MB - analyte was also detected in the associated method blank at a comparable concentration; evidence of laboratory contamination

pattern - sample chromatographic pattern does not match standard chromatogram for the analyte

PB - analyte was also detected in the associated preparation blank; evidence of laboratory contamination

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

Project Name: BNSF Railway Company	Laboratory: Test America (TA-Bothell), of Bothell, WA				
Project Reference: Skykomish Levee	Sample Matrix: Wastewater, Water with Water QC samples				
RETEC Project: BN050-19390-220	Sample Start Date: 08/02/2006				
Verified By/Date Verified: Sue Milcan 09/13/2006 (completed)	Sample End Date: 08/30/2006				
Samples Analyzed: see Table of Samples Analyzed, BNSF Railway – Skykomish Levee, Wastewater, Water with Water QC Samples, August 2006 (page 2).					
Parameters Verified: Benzene, Ethylbenzene, Toluene, and total Xylenes (BTEX) by GC/MS method 8260B; Polynuclear Aromatic Hydrocarbons (PAHs) including 1-methylnaphthalene and 2-methylnaphthalene by GC/MS method 8270C with high volume injection (8270C HVI); Semivolatile Petroleum Products as Diesel Range Hydrocarbons (DRH) and Lube Oil Range Hydrocarbons (LORH) by WDOE NWTPH-Dx method without cleanup; Total Metals (Arsenic and Lead only) by ICP method 200.8; Turbidity by method 180.1; and pH by method 150.1. Not all samples were analyzed for every parameter/method. Refer to Chain of Custody records for the exact analyses requested.					
Laboratory Project IDs (SDGs): BPH0051, BPH0208, BPH0381, BPH0545, and BPH0761					
PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT					
Precision:	X	Acceptable	Unacceptable	SM	Initials
Comments: Precision is the measure of variability of individual sample measurements. Field precision was not determined for this data set since field duplicate samples were not submitted for analysis. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. RPD precision measurements were compared to EPA published and/or laboratory control-charted QC limits. No data require qualification based on laboratory duplicate RPDs, and overall laboratory precision is acceptable. Precision measurements are reviewed in items 17 and 21.					
Accuracy:	X	Acceptable	Unacceptable	SM	Initials
Comments: Field accuracy, a measure of the sampling bias, was determined by reviewing trip blank results for evidence of contamination stemming from sample transport. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample and laboratory control sample duplicate (LCS, LCSD), matrix spike (MS), and organic system monitoring compound (surrogate) percent recoveries (%Rs). LCS, LCSD %Rs demonstrated overall analytical performance. MS %Rs provided information on sample matrix interferences. System monitoring compound or surrogate recoveries measured system performance and efficiency during organic analysis. %Rs were compared to EPA published and/or laboratory control charted QC limits. No data require qualification based on these measurements, and overall field and laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.					
Method Compliance:	X	Acceptable	Unacceptable	SM	Initials
Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, and laboratory blanks against method specified requirements. Laboratory flags indicating possible inaccurate sample quantitation due to pattern match discrepancies and interference were also considered, even though supporting documentation to fully evaluate the impact of the laboratory comments was not provided in this level of data package submittal. Although some data require qualification based on detection below the method detection limit (see item 6), laboratory contamination (see item 11), or chromatographic pattern match discrepancies/evidence of interference (see item 22), overall method compliance is acceptable, based on the data submitted, since a majority of the data is unqualified and no data points are rejected. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.					

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

Completeness:	X	Acceptable	Unacceptable	SM	Initials
Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Project completeness goals were set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods, and detection limits. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverable queries (EDD queries). EDD modifications were made as documented in item 23. All of the data received from the lab were useable, some with qualification. Since no data were missing or rejected, completeness of the data set is calculated to be 100% and is acceptable.					
VERIFICATION CRITERIA CHECK					
Data verification qualifiers used in this review:					
J	estimated concentration				
N	tentative identification				
U	evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination				
The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).					
1. Did the laboratory identify any non-conformances related to the analytical results?	X	Yes	No	SM	Initials
Comments: Suspected laboratory contamination was identified. Additionally, any assigned laboratory flags and their definitions were reviewed as part of the data evaluation procedure. Data qualification, if any, related to the laboratory comments and assigned laboratory data flags are discussed in the following sections.					
2. Were sample Chain-of-Custody forms complete?	X	Yes	No	SM	Initials
Comments: The COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, and laboratory dates and times of sample receipt.					
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	X	Yes	No	SM	Initials
Comments: All requested analyses as documented on the original COC forms (or as clarified by RETEC for SDG BPH0051) were completed by the laboratory. SDG BPH0051: Analysis for methods 8260B, 8270C HVI, 200.8, 180.1, and 150.1 were added for sample SKY-EFF-8/2/6; and analysis for method 8260B were added for sample SKY-TB-8/2/6 after receipt at the laboratory.					
4. Were samples received in good condition and at the appropriate temperature?	X	Yes	No	SM	Initials
Comments: Samples were received from the field the same day of sampling. Upon receipt at the laboratory, samples were noted to be intact, with temperatures of 6.3°C to 12.0 °C as noted in the laboratory case narratives. Samples received at greater than 6°C were determined to be in acceptable condition since samples were delivered from the field, no other preservation issues were noted, and temperatures were well below 24°C (room temperature). No action is required other than to note this observation.					
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	X	Yes	No	SM	Initials
Comments: Reported methods met those requested on the original or amended COCs or the methods reported are in compliance with the parameters requested and the sample matrix.					

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

6. Were detection limits in accordance with WP/QAPP, permit, or method?	X	Yes		No	SM	Initials
Comments: Reported detection limits are achievable by the quoted methods, and meet or better those requested on COC forms at the MDL and/or MRL (method detection limit, method reporting limit). All analytes were reported to MDLs except for methods 180.1 and 150.1 at RETEC's request. <u>All Methods -</u> Sample results reported at concentrations $\geq$ the MDL but $<$ the practical quantitation limit or method reporting limit (PQL/MRL), require J qualifiers to indicate estimated concentrations. The analyte cannot be accurately quantitated at this trace concentration level. Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	X	Yes		No	SM	Initials
Comments: Only analytes applicable to the requested methods were reported.						
8. Were sample holding times met?	X	Yes		No	SM	Initials
Comments: Method-required extraction and/or analytical preserved-sample holding times were met for all samples and analyses.						
9. Were correct concentration units reported?	X	Yes		No	SM	Initials
Comments: Correct concentration units were reported. Note that method 8270C HVI and 8260B results were reported as $\mu\text{g/L}$ (ppb) while method NWTPH-Dx and 200.8 results were reported as mg/L (ppm). Turbidity results were reported as NTU, while pH results were reported as standard units. No action is required other than to alert the data user to these different measurement units.						
10. Were the reporting requirements for flagged data met?	X	Yes		No	SM	Initials
Comments: Data verification qualifiers override any assigned laboratory data flags.						
11. Were laboratory blank samples free of target analyte contamination?		Yes	X	No	SM	Initials
Comments: Laboratory blanks were free of target analyte contamination or were associated with undetected sample results, except as noted. Action limits were calculated at 10 times the blank concentration for metals and common organic laboratory contaminants, and at 5 times the blank concentration for remaining organics analytes. <u>PAHs by Method 8270C HVI – Qualification of Results $<$ MRL -</u> Note: Current data validation guidance states that if a sample result is $\geq$ MDL but $<$ MRL, and is also less than the 5x or 10x multiple of the blank result (whichever is appropriate), the sample result should be reported as being undetected at the reporting limit due to evidence of contamination (qualified as MRL U). The criteria of reporting the sample result as undetected at the reported concentration is not true for sample results that are $<$ MRL. For these samples, the initial concentrations reported by the laboratory were maintained in the result_comment field of the project database for informational purposes only. Applying this guidance, the following qualifiers were assigned: Continued on next page						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

SDG BPH0051: Trace amounts of anthracene (0.0117 µg/L) and phenanthrene (0.0328 µg/L) were detected below the MRL in the QC batch 6H04012 method blank. SDG BPH0545: A trace amount of phenanthrene (0.0188 µg/L) was detected below the MRL in the QC batch 6H28016 method blank.

Action limits of five times the method blank concentrations were established and compared to associated project sample results. Results for these analytes that fell below the associated calculated action limit and were also less than the sample MRL were corrected to read < MRL µg/L U in both the EDD and in the table of Qualified Analytical Results to show that the analyte was evaluated to be undetected at the MRL due to evidence of laboratory contamination and false positive detection below the MRL.

Metals by Method 200.8 - Qualification of Results <= MRL -

Note: Current data validation guidance states that if a metals blank result is $\geq$ MDL but $\leq$ MRL, then all associated sample results that are $\leq$ MRL should be considered as being undetected at the reporting limit due to evidence of contamination and false positive detection below the MRL (qualified as MRL U). For these samples, the initial concentrations reported by the laboratory were maintained in the result_comment field of the project database for informational purposes only. Applying this guidance, the following qualifiers were assigned:

SDG BPH0051: A trace amount of lead (0.000960 mg/L) was detected in the QC batch 6H04033 preparation blank. SDG BPH0208: A trace amount of lead (0.000870 mg/L) was detected in the QC batch 6H10017 preparation blank. SDGs BPH0381/BPH0545/BPH0761: A trace amount of lead (0.000820 mg/L) was detected in the QC batch 6I07030 preparation blank.

Action limits of ten times the preparation blank concentrations were established and compared to associated project sample results. Associated sample results whose reported values for these analytes were $>$ MDL but $<$ MRL have been corrected to read < MRL U in both the EDD and in the table of Qualified Analytical Results to show that the analyte has been evaluated to be undetected at the MRL due to evidence of laboratory contamination and false positive detection below the MRL.

Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).

12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?	X	Yes		No	SM	Initials
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Comments: The trip blank samples were free of method 8260B target analyte contamination. Field blank and equipment rinse blank samples were not submitted/not required for this data set.

13. Were instrument calibrations within method or data validation control limits?		Yes		No	SM	Initials
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Comments: Not applicable for this level of data verification – Instrument calibration data were not supplied in analytical laboratory reports and were therefore not included in this data review.

14. Were surrogate recoveries within control limits?	X	Yes		No	SM	Initials
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Comments: Surrogate %Rs for organic analyses were within laboratory control charted QC limits for all project samples and associated QC samples.

15. Were laboratory control sample recoveries within control limits?	X	Yes		No	SM	Initials
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Comments: Reported LCS, LCSD recoveries were within data validation QC limits (70-130% for organics; 80-120% for metals; 50-150% for general chemistry) for all target analytes, and/or were within laboratory control-charted QC limits for organic target analytes as allowed for SW-846 organic methods.

16. Were matrix spike recoveries within control limits?	X	Yes		No	SM	Initials
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Comments: Project specific MS recoveries for target analytes were within laboratory control charted QC limits.

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

17. Were duplicate RPDs and/or serial dilution %Ds within control limits?	X	Yes		No	SM	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD and project-specific duplicate samples were within data validation control limits, were not applicable due to undetected results in both samples, or sample results were within $\pm$ the detection limit. <i>Serial Dilution %D data for metals analysis is not applicable for this level of data verification – serial dilution data were not supplied in analytical laboratory reports and were therefore not included in this data review.</i>						
18. Were organic system performance criteria met?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – Organic system performance data was not supplied in analytical laboratory reports and was therefore not included in this data review.						
19. Were internal standards within method criteria for GC/MS sample analyses?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – GC/MS Internal standard data was not supplied in analytical laboratory reports and was therefore not included in this data review.						
20. Were inorganic system performance criteria met?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – Inorganic system performance data was not supplied in analytical laboratory reports and was therefore not included in this data review.						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.		Yes	X	No	SM	Initials
Duplicate Sample No.			Primary Sample No.			
Comments: Not applicable - Field duplicate samples were not submitted for analysis with this data set. Field precision was not evaluated.						
22. Were qualitative/quantitative criteria for organic target analyte identification met?		Yes	X	No	SM	Initials
Comments: GC/MS and GC quantitation reports and chromatograms were reviewed by trained laboratory personnel in accordance with the laboratory's internal QA/QC program. The following identification/quantitation flags were assigned by the laboratory, and upheld during the data verification procedure: <u>Method NWTPH-Dx –</u> SDG BPH0051: The laboratory noted that the chromatographic pattern for the positive DRO result reported for sample SKY-WF-8/2/6 did not resemble the DRO standard, and that the concentration reported was partially due to one or more co-eluting non-target peaks. For these reasons, professional judgment determines that the DRO result requires NJ qualifiers to indicate tentative identification and estimated quantitation due to these pattern match discrepancies and interferences, even though supporting documentation to fully evaluate the laboratory notes is not provided in this level of report deliverable. Analyte confirmation and quantitation by GC/MS is recommended. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	SM	Initials
Comments: The submitted EDD queries were reviewed 100% for positive concentrations and reporting limits. The EDD entries were resolved with the hardcopy data results and corrected as necessary for significant figures. According to validation protocol, the hardcopy data report was accepted as the correct reference. The data validator changed the sample matrix code to WQ (water QC) from WG (groundwater) for the trip blank samples to more accurately reflect the sample matrix. Note that the sample matrix code of WG for non-QC project samples was not changed, even though the correct matrix for the samples (except for background samples) is wastewater. Sample SKY-NPDES-EFF-083006, laboratory ID BPH0761-01, is listed with two sys_sample_codes (SKY-NPDES-EFF-083006 and SKY-EFF-083006). The data validator did not standardize these entries since this is a primary key field, and would create errors during database update merges. The RETEC database manager was informed of all changes made to the EDD query files via this Checklist. The updated EQUIS EDD queries, with corrections made and data validation qualifiers and reason codes added, were returned to the RETEC project manager in Seattle, WA on 09/11/2006 and 09/13/2006.						
24. General Comments: Data were evaluated based on validation criteria set forth in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic/Inorganic Data Review</i>, document numbers EPA540/R-99/008 and EPA540/R-04/004 of October 1999 (Organic) and October 2004 (Inorganic), and the <i>USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review</i>, document number USEPA-540-R-04-009, January 2005 (<i>Draft</i>), as they applied to the reported methodology. Washington State Department of Ecology (WDOE) methods were also reviewed as per <i>WDOE Analytical Methods for Petroleum Hydrocarbons</i>, ECY 97-602 of June 1997. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						

Attachment C
Laboratory Analytical Reports

August 16, 2006

Stephen Howard
The RETEC Group, Inc..
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 08/02/06 16:49.
The following list is a summary of the Work Orders contained in this report, generated on 08/16/06
13:07.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPH0051	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

08/16/06 13:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-NPDES-EFF-080206	BPH0051-01	Water	08/02/06 14:40	08/02/06 16:49
SKY-NPDES-TB-080206	BPH0051-02	Water	08/02/06 12:00	08/02/06 16:49
SKY-NPDES-WF-080206	BPH0051-03	Water	08/02/06 14:35	08/02/06 16:49

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/16/06 13:07

Analytical Case Narrative
TestAmerica - Seattle, WA

BPH0051

1.0 DESCRIPTION OF CASE

Two water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Total Metals by EPA 200 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received July 24th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.5 degrees Celsius.

3.0 PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

08/16/06 13:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0051-01 (SKY-NPDES-EFF-080206)		Water		Sampled: 08/02/06 14:40						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0408	0.255	mg/l	1x	6H04037	08/04/06 14:47	08/08/06 14:29	
Lube Oil Range Hydrocarbons	"	ND	0.0918	0.510	"	"	"	"	"	
Surrogate(s): 2-FBP			102%		53 - 125 %	"				"
Octacosane			90.6%		68 - 125 %	"				"
BPH0051-03 (SKY-NPDES-WF-080206)		Water		Sampled: 08/02/06 14:35						
Diesel Range Hydrocarbons	NWTPH-Dx	0.331	0.0400	0.250	mg/l	1x	6H04037	08/04/06 14:47	08/08/06 14:59	D-03, D-06
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			108%		53 - 125 %	"				"
Octacosane			98.4%		68 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/16/06 13:07

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0051-01 (SKY-NPDES-EFF-080206)		Water		Sampled: 08/02/06 14:40						
Arsenic	EPA 200.8	0.000770	0.000430	0.00100	mg/l	1x	6H04033	08/04/06 13:52	08/07/06 15:02	J
Lead	*	0.000960	0.000140	0.00100	*	*	*	*	*	J

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 08/16/06 13:07

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0051-01 (SKY-NPDES-EFF-080206)		Water		Sampled: 08/02/06 14:40						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H04016	08/04/06 11:34	08/04/06 17:42	
Ethylbenzene	*	ND	0.125	0.500	*	*	*	*	*	
Toluene	*	ND	0.127	0.500	*	*	*	*	*	
Total Xylenes	*	ND	0.298	1.00	*	*	*	*	*	
Surrogate(s): 1,2-DCA-d4			125%		70 - 130 %	*			*	
Toluene-d8			100%		75 - 125 %	*			*	
4-BFB			97.5%		75 - 125 %	*			*	
BPH0051-02 (SKY-NPDES-TB-080206)		Water		Sampled: 08/02/06 12:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H15045	08/15/06 08:26	08/15/06 17:37	
Ethylbenzene	*	ND	0.125	0.500	*	*	*	*	*	
Toluene	*	ND	0.127	0.500	*	*	*	*	*	
Total Xylenes	*	ND	0.298	1.00	*	*	*	*	*	
Surrogate(s): 1,2-DCA-d4			103%		70 - 130 %	*			*	
Toluene-d8			106%		75 - 125 %	*			*	
4-BFB			99.0%		75 - 125 %	*			*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/16/06 13:07

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0051-01 (SKY-NPDES-EFF-080206)		Water		Sampled: 08/02/06 14:40						
Acenaphthene	EPA 8270C-HVI	ND	0.00261	0.0962	ug/l	1x	GH04012	08/04/06 09:39	08/14/06 11:22	
Acenaphthylene	"	ND	0.00242	0.0962	"	"	"	"	"	
Anthracene	"	0.00677	0.00273	0.0962	"	"	"	"	"	J
Benzo (a) anthracene	"	ND	0.00152	0.00962	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00303	0.00962	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00198	0.00962	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00179	0.00962	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00285	0.0962	"	"	"	"	"	
Chrysene	"	ND	0.00181	0.00962	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00240	0.00962	"	"	"	"	"	
Fluoranthene	"	ND	0.00188	0.0962	"	"	"	"	"	
Fluorene	"	ND	0.00343	0.0962	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00237	0.00962	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00214	0.0962	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00219	0.0962	"	"	"	"	"	
Naphthalene	"	ND	0.00403	0.0962	"	"	"	"	"	
Phenanthrene	"	0.0245	0.00249	0.0962	"	"	"	"	"	J
Pyrene	"	ND	0.00235	0.0962	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			81.6%		20 - 125 %	"				"
1-Methylnaphthalene-d10			72.0%		39 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

08/16/06 13:07

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0051-01 (SKY-NPDES-EFF-080206)		Water		Sampled: 08/02/06 14:40						
pH	EPA 150.1	6.81	—		pH Units	1x	6H02052	08/02/06 20:00	08/02/06 20:00	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6H02049	08/02/06 19:40	08/02/06 20:19	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/16/06 13:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H04037 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/04/06 14:47														
Blank (6H04037-BLK1)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	08/08/06 11:32	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 99.6%		Limits: 53-125%	"								08/08/06 11:32	
Octacosane		89.2%		68-125%	"								"	
Extracted: 08/04/06 14:47														
LCS (6H04037-BS1)														
Diesel Range Hydrocarbons	NWTPH-Dx	2.27	0.0400	0.250	mg/l	1x	--	2.00	114%	(61-132)	--	--	08/08/06 12:02	
Surrogate(s): 2-FBP		Recovery: 108%		Limits: 53-125%	"								08/08/06 12:02	
Octacosane		93.6%		68-125%	"								"	
Extracted: 08/04/06 14:47														
LCS Dup (6H04037-BSD1)														
Diesel Range Hydrocarbons	NWTPH-Dx	2.28	0.0400	0.250	mg/l	1x	--	2.00	114%	(61-132)	0.440%	(40)	08/08/06 14:00	
Surrogate(s): 2-FBP		Recovery: 107%		Limits: 53-125%	"								08/08/06 14:00	
Octacosane		97.6%		68-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

08/16/06 13:07

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H04033

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H04033-BLK1)										Extracted: 08/04/06 13:52				
Lead	EPA 200.8	0.000960	0.000140	0.00100	mg/l	1x	-	-	-	-	-	-	08/07/06 12:32	J
Arsenic	*	ND	0.000430	0.00100	*	*	-	-	-	-	-	-	*	
LCS (6H04033-BS1)										Extracted: 08/04/06 13:52				
Lead	EPA 200.8	0.0835	0.000140	0.00100	mg/l	1x	-	0.0800	104%	(85-115)	-	-	08/07/06 12:38	
Arsenic	*	0.0846	0.000430	0.00100	*	*	-	*	106%	*	-	-	*	
Duplicate (6H04033-DUP1)										QC Source: BPH0051-01 Extracted: 08/04/06 13:52				
Arsenic	EPA 200.8	0.000810	0.000430	0.00100	mg/l	1x	0.000770	-	-	-	5.06%	(20)	08/07/06 14:56	J
Lead	*	0.00123	0.000140	0.00100	*	*	0.000960	-	-	-	24.7%	*	*	DP-1
Matrix Spike (6H04033-MS1)										QC Source: BPH0051-01 Extracted: 08/04/06 13:52				
Arsenic	EPA 200.8	0.0859	0.000430	0.00100	mg/l	1x	0.000770	0.0800	106%	(75-125)	-	-	08/07/06 12:43	
Lead	*	0.0842	0.000140	0.00100	*	*	0.000960	*	104%	*	-	-	*	
Matrix Spike (6H04033-MS2)										QC Source: BPH0067-01 Extracted: 08/04/06 13:52				
Lead	EPA 200.8	0.0817	0.000140	0.00100	mg/l	1x	0.000920	0.0800	101%	(75-125)	-	-	08/07/06 14:51	
Arsenic	*	0.0849	0.000430	0.00100	*	*	0.00209	*	104%	*	-	-	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/16/06 13:07

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H04016 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/04/06 10:35														
Blank (6H04016-BLK1)														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	08/04/06 13:20	
Ethylbenzene	"	ND	0.125	0.500	"	"	-	-	-	-	-	-	"	
Toluene	"	ND	0.127	0.500	"	"	-	-	-	-	-	-	"	
Total Xylenes	"	ND	0.298	1.00	"	"	-	-	-	-	-	-	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	117%	Limits:	70-130%	"							08/04/06 13:20	
Toluene-d8			98.5%		75-125%	"							"	
4-BFB			102%		75-125%	"							"	
Extracted: 08/04/06 10:35														
LCS (6H04016-BS1)														
Benzene	EPA 8260B	18.7	0.114	0.500	ug/l	1x	-	20.0	93.5%	(80-120)	-	-	08/04/06 11:54	
Ethylbenzene	"	20.0	0.125	0.500	"	"	-	"	100%	"	-	-	"	
Toluene	"	19.8	0.127	0.500	"	"	-	"	99.0%	"	-	-	"	
Total Xylenes	"	61.8	0.298	1.00	"	"	-	60.0	103%	"	-	-	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	116%	Limits:	70-130%	"							08/04/06 11:54	
Toluene-d8			103%		75-125%	"							"	
4-BFB			99.5%		75-125%	"							"	
Extracted: 08/04/06 10:35														
LCS Dup (6H04016-BSD1)														
Benzene	EPA 8260B	19.0	0.114	0.500	ug/l	1x	-	20.0	95.0%	(80-120)	1.59%	(20)	08/04/06 12:20	
Ethylbenzene	"	20.3	0.125	0.500	"	"	-	"	102%	"	1.49%	"	"	
Toluene	"	20.1	0.127	0.500	"	"	-	"	100%	"	1.50%	"	"	
Total Xylenes	"	61.5	0.298	1.00	"	"	-	60.0	102%	"	0.487%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	114%	Limits:	70-130%	"							08/04/06 12:20	
Toluene-d8			102%		75-125%	"							"	
4-BFB			97.5%		75-125%	"							"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

08/16/06 13:07

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H15045

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H15045-BLK1)														Extracted: 08/15/06 08:26
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	08/15/06 11:49	
Ethylbenzene	"	ND	0.125	0.500	"	"	-	-	-	-	-	-	"	
Toluene	"	ND	0.127	0.500	"	"	-	-	-	-	-	-	"	
Total Xylenes	"	ND	0.298	1.00	"	"	-	-	-	-	-	-	"	
<i>Surrogate(s): 1,2-DCA-d4</i>														08/15/06 11:49
<i>Toluene-d8</i>														"
<i>4-BFB</i>														"
<i>Recovery: 103%</i>														
<i>Limits: 70-130%</i>														
<i>75-125%</i>														
<i>75-125%</i>														
LCS (6H15045-BS1)														Extracted: 08/15/06 08:26
Benzene	EPA 8260B	19.5	0.114	0.500	ug/l	1x	-	20.0	97.5%	(80-120)	-	-	08/15/06 10:26	
Ethylbenzene	"	20.1	0.125	0.500	"	"	-	"	100%	"	-	-	"	
Toluene	"	20.4	0.127	0.500	"	"	-	"	102%	"	-	-	"	
Total Xylenes	"	61.3	0.298	1.00	"	"	-	60.0	102%	"	-	-	"	
<i>Surrogate(s): 1,2-DCA-d4</i>														08/15/06 10:26
<i>Toluene-d8</i>														"
<i>4-BFB</i>														"
<i>Recovery: 99.5%</i>														
<i>Limits: 70-130%</i>														
<i>75-125%</i>														
<i>75-125%</i>														
LCS Dup (6H15045-BSD1)														Extracted: 08/15/06 08:26
Benzene	EPA 8260B	19.4	0.114	0.500	ug/l	1x	-	20.0	97.0%	(80-120)	0.514%	(20)	08/15/06 10:53	
Ethylbenzene	"	19.7	0.125	0.500	"	"	-	"	96.5%	"	2.01%	"	"	
Toluene	"	20.2	0.127	0.500	"	"	-	"	101%	"	0.985%	"	"	
Total Xylenes	"	59.3	0.298	1.00	"	"	-	60.0	98.8%	"	3.32%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>														08/15/06 10:53
<i>Toluene-d8</i>														"
<i>4-BFB</i>														"
<i>Recovery: 97.5%</i>														
<i>Limits: 70-130%</i>														
<i>75-125%</i>														
<i>75-125%</i>														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/16/06 13:07

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H04012 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H04012-BLK3)														Extracted: 08/04/06 09:39
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	-	-	-	-	-	-	08/14/06 10:49	
Acenaphthylene	*	ND	0.00252	0.100	*	*	-	-	-	-	-	-	*	J
Anthracene	*	0.0117	0.00284	0.100	*	*	-	-	-	-	-	-	*	J
Benzo (a) anthracene	*	0.00600	0.00158	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (a) pyrene	*	ND	0.00315	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (b) fluoranthene	*	ND	0.00206	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (k) fluoranthene	*	ND	0.00186	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (ghi) perylene	*	ND	0.00296	0.100	*	*	-	-	-	-	-	-	*	J
Chrysene	*	0.00552	0.00188	0.0100	*	*	-	-	-	-	-	-	*	
Dibenz (a,h) anthracene	*	ND	0.00250	0.0100	*	*	-	-	-	-	-	-	*	J
Fluoranthene	*	0.00998	0.00196	0.100	*	*	-	-	-	-	-	-	*	
Fluorene	*	ND	0.00357	0.100	*	*	-	-	-	-	-	-	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00246	0.0100	*	*	-	-	-	-	-	-	*	
1-Methylnaphthalene	*	ND	0.00223	0.100	*	*	-	-	-	-	-	-	*	
2-Methylnaphthalene	*	ND	0.00228	0.100	*	*	-	-	-	-	-	-	*	
Naphthalene	*	ND	0.00419	0.100	*	*	-	-	-	-	-	-	*	J
Phenanthrene	*	0.0328	0.00259	0.100	*	*	-	-	-	-	-	-	*	
Pyrene	*	ND	0.00244	0.100	*	*	-	-	-	-	-	-	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 92.1% Limits: 20-125% 08/14/06 10:49														
1-Methylnaphthalene-d10 86.8% 39-125%														

LCS (6H04012-BS3)

Extracted: 08/04/06 09:39														08/14/06 09:44
Acenaphthene	EPA 8270C-HVI	16.2	0.0271	1.00	ug/l	10x	-	20.0	81.0%	(44-125)	-	-	*	
Acenaphthylene	*	15.7	0.0252	1.00	*	*	-	*	78.5%	(51-125)	-	-	*	
Anthracene	*	20.5	0.0284	1.00	*	*	-	*	102%	(50-125)	-	-	*	
Benzo (a) anthracene	*	15.7	0.0158	0.100	*	*	-	*	78.5%	*	-	-	*	
Benzo (a) pyrene	*	15.3	0.0315	0.100	*	*	-	*	76.5%	(47-125)	-	-	*	
Benzo (b) fluoranthene	*	16.2	0.0206	0.100	*	*	-	*	81.0%	(50-125)	-	-	*	
Benzo (k) fluoranthene	*	13.9	0.0186	0.100	*	*	-	*	69.5%	(46-125)	-	-	*	
Benzo (ghi) perylene	*	15.3	0.0296	1.00	*	*	-	*	76.5%	(49-125)	-	-	*	
Chrysene	*	15.4	0.0188	0.100	*	*	-	*	77.0%	(53-125)	-	-	*	
Dibenz (a,h) anthracene	*	16.7	0.0250	0.100	*	*	-	*	83.5%	(47-125)	-	-	*	
Fluoranthene	*	21.5	0.0196	1.00	*	*	-	*	108%	(55-125)	-	-	*	
Fluorene	*	19.0	0.0357	1.00	*	*	-	*	95.0%	(52-125)	-	-	*	
Indeno (1,2,3-cd) pyrene	*	16.2	0.0246	0.100	*	*	-	*	81.0%	(49-125)	-	-	*	
1-Methylnaphthalene	*	13.5	0.0223	1.00	*	*	-	*	67.5%	(37-125)	-	-	*	
2-Methylnaphthalene	*	12.9	0.0228	1.00	*	*	-	*	64.5%	(40-125)	-	-	*	
Naphthalene	*	12.9	0.0419	1.00	*	*	-	*	64.5%	(42-125)	-	-	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

08/16/06 13:07

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H04012

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6H04012-BS3)														
Extracted: 08/04/06 09:39														
Phenanthrene	EPA 8270C-HVI	17.1	0.0259	1.00	ug/l	10x	—	20.0	85.5%	(47-125)	—	—	08/14/06 09:44	
Pyrene	"	17.4	0.0244	1.00	"	"	—	"	87.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 66.9%														
Limits: 20-125%														
39-125%														

LCS Dup (6H04012-BSD3)														
Extracted: 08/04/06 09:39														
Acenaphthene	EPA 8270C-HVI	15.9	0.0271	1.00	ug/l	10x	—	20.0	79.5%	(44-125)	1.87%	(35)	08/14/06 10:17	
Acenaphthylene	"	15.4	0.0252	1.00	"	"	—	"	77.0%	(51-125)	1.93%	"	"	
Anthracene	"	18.6	0.0284	1.00	"	"	—	"	93.0%	(50-125)	9.72%	"	"	
Benzo (a) anthracene	"	15.1	0.0158	0.100	"	"	—	"	75.5%	"	3.90%	"	"	
Benzo (a) pyrene	"	14.0	0.0315	0.100	"	"	—	"	70.0%	(47-125)	8.87%	"	"	
Benzo (b) fluoranthene	"	15.8	0.0206	0.100	"	"	—	"	79.0%	(50-125)	2.50%	"	"	
Benzo (k) fluoranthene	"	14.2	0.0186	0.100	"	"	—	"	71.0%	(46-125)	2.14%	"	"	
Benzo (ghi) perylene	"	13.7	0.0296	1.00	"	"	—	"	68.5%	(49-125)	11.0%	"	"	
Chrysene	"	15.5	0.0188	0.100	"	"	—	"	77.5%	(53-125)	0.647%	"	"	
Dibenz (a,h) anthracene	"	12.8	0.0250	0.100	"	"	—	"	64.0%	(47-125)	26.4%	"	"	
Fluoranthene	"	19.7	0.0196	1.00	"	"	—	"	98.5%	(55-125)	8.74%	"	"	
Fluorene	"	16.2	0.0357	1.00	"	"	—	"	81.0%	(52-125)	15.9%	"	"	
Indeno (1,2,3-cd) pyrene	"	13.1	0.0246	0.100	"	"	—	"	65.5%	(49-125)	21.2%	"	"	
1-Methylnaphthalene	"	12.7	0.0223	1.00	"	"	—	"	63.5%	(37-125)	6.11%	"	"	
2-Methylnaphthalene	"	12.7	0.0228	1.00	"	"	—	"	63.5%	(40-125)	1.56%	"	"	
Naphthalene	"	16.8	0.0419	1.00	"	"	—	"	84.0%	(42-125)	26.3%	"	"	
Phenanthrene	"	17.5	0.0259	1.00	"	"	—	"	87.5%	(47-125)	2.31%	"	"	
Pyrene	"	21.8	0.0244	1.00	"	"	—	"	109%	"	22.4%	"	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 79.0%														
Limits: 20-125%														
39-125%														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/16/06 13:07
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H02049			Water Preparation Method: General Preparation											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H02049-BLK1)														
Extracted: 08/02/06 19:40														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	08/02/06 20:19	
LCS (6H02049-BS1)														
Extracted: 08/02/06 19:40														
Turbidity	EPA 180.1	14.4	—	1.00	NTU	1x	—	14.5	99.3%	(90-110)	—	—	08/02/06 20:19	
Duplicate (6H02049-DUP1)														
QC Source: BPH0051-01														
Extracted: 08/02/06 19:40														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	0.00%	(20)	08/02/06 20:19	

QC Batch: 6H02052			Water Preparation Method: General Preparation											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6H02052-DUP1)			QC Source: BPH0051-01						Extracted: 08/02/06 20:00					
pH	EPA 150.1	6.79	—		pH Units	1x	6.81	—	—	—	0.294%	(10)	08/02/06 20:00	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
08/16/06 13:07

Notes and Definitions

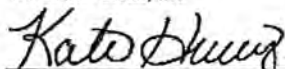
Report Specific Notes:

- D-03 - The hydrocarbon concentration result in this sample is partially due to one or more individual peaks eluting in the diesel/heavy oil range. Quantitation by EPA method 8270 is recommended.
- D-06 - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- DP-1 - Sample RPD exceeded the laboratory control limit.
- J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BP-H0051																			
		Laboratory: Test America Address: 11720 North Creek Pkwy N #400 City/State/Zip: Bothell, WA 98011		Project Manager: Kate Haney Phone: 425-420-9249 Fax:		SHIPMENT INFORMATION																			
BNSF PROJECT INFORMATION		CONSULTANT INFORMATION		PROJECT INFORMATION																					
BNSF Project Number: BNSF Project Name: Skykomish Levee BNSF Contact: Bruce Sheppard		Project State of Origin: WA Project City: Skykomish BNSF Work Order No.: TT 0100-606		Company: The RETEC Group Inc Address: 1011 Smithlick Hat Way #207 City/State/Zip: Seattle WA 98134		Project Number: BH050-19390 Project Manager: S. Howard Email: Showard@retec.com Phone: 206-624-9349 Fax:																			
TURNAROUND TIME		DELIVERABLES		METHODS FOR ANALYSIS																					
☒ 1-day Rush ☐ 2-day Rush ☐ 3-day Rush ☐ 5- to 8-day Rush ☒ Standard 10-Day ☐ Other		☐ BNSF Standard (Level II) ☐ Level III ☐ Level IV ☒ Other Deliverables? ☒ EDD Req. Format? RETEC		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">NIAPH-DX</td> <td style="width: 10%;">Pb, As</td> <td style="width: 10%;">BTX</td> <td style="width: 10%;">PH Turbidity</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						NIAPH-DX	Pb, As	BTX	PH Turbidity					X	X	X	X				
NIAPH-DX	Pb, As	BTX	PH Turbidity																						
X	X	X	X																						
SAMPLE INFORMATION																									
Sample Identification	Containers	Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	COMMENTS	LAB USE																
SKY-NPDES-EFF-080206	9	8/2/06	1440	SA	N	G	W	X	-01																
SKY-NPDES-TB-080206	1	8/2/06			N	G	W	X	-02																
SKY-NPDES-WF-080206	2	8/2/06	1435	AH	N	G	W	X	-03																
BL's: Turbidity: 5 NTU, Benzene 1.2 ug/L, BTX: 100 ug/L, NIAPH-DX - same as Skykomish Zn, Total Pb: 17.5 ug/L, Total As: 340 ug/L, Anthracene: 2400 ug/L, Fluorene: 640 ug/L Naphthalene: 160 ug/L, Pyrene 400 ug/L, Benzo (a) anthracene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (a) pyrene, chrysene, dibenz (ah) anthracene, Indeno (1,2,3-cd) pyrene: 0.0028 ug/L or 0.01 ug/L, Adenanthrene 643 ug/L, fluoranthene 90.2 ug/L per e-mail																									
Requisitioned By: Requisitioned By: _____ Requisitioned By: _____ Received by Laboratory: _____																									
Date/Time: 8/2/06 1645		Received By: Joanne Toth		Date/Time: 8/2/06 1649		Comments and Special Analytical Requirements:																			
Date/Time:		Received By:		Date/Time:		Lab: Custody Intact? ☐ Yes ☐ No																			
Date/Time:		Received By:		Date/Time:		Custody Seal No.:		BNSF COC No.:																	

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

August 31, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 08/09/06 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 08/31/06
16:48.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPH0208	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
08/31/06 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-NPDES-EFF-080906	BPH0208-01	Water	08/09/06 10:05	08/09/06 15:00
SKY-NPDES-INF-080906	BPH0208-02	Water	08/09/06 10:00	08/09/06 15:00
SKY-NPDES-TB-080906	BPH0208-03	Water	08/09/06 12:00	08/09/06 15:00

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

08/31/06 16:48

Analytical Case Narrative

TestAmerica - Seattle, WA

BPH0208

.0 DESCRIPTION OF CASE

Two water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Total Metals by EPA 200 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received August 9th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.1 degrees Celsius.

3.0 PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/31/06 16:48

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0208-01 (SKY-NPDES-EFF-080906)		Water		Sampled: 08/09/06 10:05						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	6H11037	08/11/06 13:56	08/15/06 16:22	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			90.8%		53 - 125 %	"				"
Octacosane			80.4%		68 - 125 %	"				"
BPH0208-02 (SKY-NPDES-INF-080906)		Water		Sampled: 08/09/06 10:00						
Diesel Range Hydrocarbons	NWTPH-Dx	0.195	0.0400	0.250	mg/l	1x	6H11037	08/11/06 13:56	08/15/06 16:51	J
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			78.0%		53 - 125 %	"				"
Octacosane			74.8%		68 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/31/06 16:48

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0208-01 (SKY-NPDES-EFF-080906)		Water		Sampled: 08/09/06 10:05						
Arsenic	EPA 200.8	0.000730	0.000430	0.00100	mg/l	1x	6H10017	08/10/06 10:54	08/11/06 10:30	J
Lead	*	0.000920	0.000140	0.00100	*	*	*	*	*	J

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

08/31/06 16:48

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0208-01 (SKY-NPDES-EFF-080906)		Water		Sampled: 08/09/06 10:05						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H10024	08/10/06 11:31	08/10/06 16:12	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	1.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>										
			114%		70 - 130 %	"			"	
<i>Toluene-d8</i>										
			98.0%		75 - 125 %	"			"	
<i>4-BFB</i>										
			100%		75 - 125 %	"			"	
BPH0208-03 (SKY-NPDES-TB-080906)		Water		Sampled: 08/09/06 12:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H10024	08/10/06 11:31	08/10/06 14:55	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	1.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>										
			112%		70 - 130 %	"			"	
<i>Toluene-d8</i>										
			98.0%		75 - 125 %	"			"	
<i>4-BFB</i>										
			100%		75 - 125 %	"			"	

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Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 08/31/06 16:48

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0208-01 (SKY-NPDES-EFF-080906)		Water		Sampled: 08/09/06 10:05						
Acenaphthene	EPA 8270C-HVI	ND	0.00258	0.0952	ug/l	1x	6H11036	08/11/06 13:54	08/28/06 13:35	
Acenaphthylene	*	ND	0.00240	0.0952	*	*	*	*	*	
Anthracene	*	ND	0.00270	0.0952	*	*	*	*	*	
Benzo (a) anthracene	*	ND	0.00150	0.00952	*	*	*	*	*	
Benzo (a) pyrene	*	ND	0.00300	0.00952	*	*	*	*	*	
Benzo (b) fluoranthene	*	ND	0.00196	0.00952	*	*	*	*	*	
Benzo (k) fluoranthene	*	ND	0.00177	0.00952	*	*	*	*	*	
Benzo (ghi) perylene	*	ND	0.00282	0.0952	*	*	*	*	*	
Chrysene	*	ND	0.00179	0.00952	*	*	*	*	*	
Dibenz (a,h) anthracene	*	ND	0.00238	0.00952	*	*	*	*	*	
Fluoranthene	*	ND	0.00187	0.0952	*	*	*	*	*	
Fluorene	*	ND	0.00340	0.0952	*	*	*	*	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00234	0.00952	*	*	*	*	*	
1-Methylnaphthalene	*	ND	0.00212	0.0952	*	*	*	*	*	
2-Methylnaphthalene	*	ND	0.00217	0.0952	*	*	*	*	*	
Naphthalene	*	ND	0.00399	0.0952	*	*	*	*	*	
Phenanthrene	*	ND	0.00247	0.0952	*	*	*	*	*	
Pyrene	*	ND	0.00232	0.0952	*	*	*	*	*	
Surrogate(s): Benzo (a) pyrene-d12			77.5%		20 - 125 %	*				
1-Methylnaphthalene-d10			104%		39 - 125 %	*				

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Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 08/31/06 16:48

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0208-01 (SKY-NPDES-EFF-080906)		Water		Sampled: 08/09/06 10:05						
pH	EPA 150.1	7.06	—		pH Units	1x	6H09069	08/09/06 21:31	08/09/06 21:31	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6H09067	08/09/06 21:26	08/09/06 21:32	

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/31/06 16:48

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H11037 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/11/06 13:56														
Blank (6H11037-BLK1)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	-	-	-	-	-	-	08/15/06 13:55	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	-	-	-	-	-	-	"	
Surrogate(s): 2-FBP		Recovery: 93.2%		Limits: 53-125%	"								08/15/06 13:55	
Octacosane		79.2%		68-125%	"								"	
Extracted: 08/11/06 13:56														
LCS (6H11037-BS1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.58	0.0400	0.250	mg/l	1x	-	2.00	79.0%	(61-132)	-	-	08/15/06 14:24	
Surrogate(s): 2-FBP		Recovery: 89.2%		Limits: 53-125%	"								08/15/06 14:24	
Octacosane		80.0%		68-125%	"								"	
Extracted: 08/11/06 13:56														
LCS Dup (6H11037-BSD1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.75	0.0400	0.250	mg/l	1x	-	2.00	87.5%	(61-132)	10.2%	(40)	08/15/06 14:53	
Surrogate(s): 2-FBP		Recovery: 100%		Limits: 53-125%	"								08/15/06 14:53	
Octacosane		86.8%		68-125%	"								"	

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1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

08/31/06 16:48

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H10017

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H10017-BLK1)														Extracted: 08/10/06 10:54
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	—	—	—	—	—	—	08/11/06 09:56	
Lead	"	0.000870	0.000140	0.00100	"	"	—	—	—	—	—	—	"	J
LCS (6H10017-BS1)														Extracted: 08/10/06 10:54
Arsenic	EPA 200.8	0.0812	0.000430	0.00100	mg/l	1x	—	0.0800	102%	(85-115)	—	—	08/11/06 10:13	
Lead	"	0.0813	0.000140	0.00100	"	"	—	"	102%	"	—	—	"	
Duplicate (6H10017-DUP1)														QC Source: BPH0208-01 Extracted: 08/10/06 10:54
Arsenic	EPA 200.8	0.000750	0.000430	0.00100	mg/l	1x	0.000730	—	—	—	2.70% (20)	—	08/11/06 10:24	J
Lead	"	0.000980	0.000140	0.00100	"	"	0.000920	—	—	—	6.32% "	—	"	J
Matrix Spike (6H10017-MS1)														QC Source: BPH0208-01 Extracted: 08/10/06 10:54
Arsenic	EPA 200.8	0.0825	0.000430	0.00100	mg/l	1x	0.000730	0.0800	102%	(75-125)	—	—	08/11/06 10:19	
Lead	"	0.0818	0.000140	0.00100	"	"	0.000920	"	101%	"	—	—	"	

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/31/06 16:48
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H10024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H10024-BLK1)														
Extracted: 08/10/06 10:31														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	08/10/06 14:04	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Methyl tert-butyl ether	"	ND	0.248	1.00	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	1.00	"	"	—	—	—	—	—	—	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 110% Limits: 70-130% " 08/10/06 14:04														
Toluene-d8 98.0% 75-125% " "														
4-BFB 102% 75-125% " "														

LCS (6H10024-BS1)														
Extracted: 08/10/06 10:31														
Benzene	EPA 8260B	17.8	0.114	0.500	ug/l	1x	—	20.0	89.0%	(80-120)	—	—	08/10/06 12:42	
Ethylbenzene	"	18.6	0.125	0.500	"	"	—	"	93.0%	"	—	—	"	
Methyl tert-butyl ether	"	17.6	0.248	1.00	"	"	—	"	88.0%	"	—	—	"	
Toluene	"	18.5	0.127	0.500	"	"	—	"	92.5%	"	—	—	"	
Total Xylenes	"	56.3	0.298	1.00	"	"	—	60.0	93.8%	"	—	—	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 105% Limits: 70-130% " 08/10/06 12:42														
Toluene-d8 101% 75-125% " "														
4-BFB 99.5% 75-125% " "														

LCS Dup (6H10024-BSD1)														
Extracted: 08/10/06 10:31														
Benzene	EPA 8260B	17.6	0.114	0.500	ug/l	1x	—	20.0	88.0%	(80-120)	1.13%	(20)	08/10/06 13:11	
Ethylbenzene	"	18.4	0.125	0.500	"	"	—	"	92.0%	"	1.08%	"	"	
Methyl tert-butyl ether	"	17.8	0.248	1.00	"	"	—	"	89.0%	"	1.13%	"	"	
Toluene	"	18.7	0.127	0.500	"	"	—	"	93.5%	"	1.08%	"	"	
Total Xylenes	"	56.6	0.298	1.00	"	"	—	60.0	94.3%	"	0.531%	"	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 106% Limits: 70-130% " 08/10/06 13:11														
Toluene-d8 102% 75-125% " "														
4-BFB 99.0% 75-125% " "														

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Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
08/31/06 16:48

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: **6H11036** Water Preparation Method: **EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H11036-BLK3)										Extracted: 08/11/06 13:54				
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	08/28/06 12:50	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	0.00508	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	0.00544	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	0.0101	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	0.00546	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 80.8% Limits: 20-125% " 08/28/06 12:50														
1-Methylnaphthalene-d10 98.2% 39-125% " "														

LCS (6H11036-BS3)

										Extracted: 08/11/06 13:54				
Acenaphthene	EPA 8270C-HVI	15.3	0.0271	1.00	ug/l	10x	--	20.0	76.5%	(44-125)	--	--	08/28/06 11:44	
Acenaphthylene	"	16.8	0.0252	1.00	"	"	--	"	84.0%	(51-125)	--	--	"	
Anthracene	"	17.4	0.0284	1.00	"	"	--	"	87.0%	(50-125)	--	--	"	
Benzo (a) anthracene	"	18.0	0.0158	0.100	"	"	--	"	90.0%	"	--	--	"	
Benzo (a) pyrene	"	17.4	0.0315	0.100	"	"	--	"	87.0%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	17.5	0.0206	0.100	"	"	--	"	87.5%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	18.8	0.0186	0.100	"	"	--	"	94.0%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	17.4	0.0296	1.00	"	"	--	"	87.0%	(49-125)	--	--	"	
Chrysene	"	18.5	0.0188	0.100	"	"	--	"	92.5%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	17.5	0.0250	0.100	"	"	--	"	87.5%	(47-125)	--	--	"	
Fluoranthene	"	18.5	0.0196	1.00	"	"	--	"	92.5%	(55-125)	--	--	"	
Fluorene	"	16.4	0.0357	1.00	"	"	--	"	82.0%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	17.7	0.0246	0.100	"	"	--	"	88.5%	(49-125)	--	--	"	
1-Methylnaphthalene	"	14.2	0.0223	1.00	"	"	--	"	71.0%	(37-125)	--	--	"	
2-Methylnaphthalene	"	12.3	0.0228	1.00	"	"	--	"	61.5%	(40-125)	--	--	"	
Naphthalene	"	14.9	0.0419	1.00	"	"	--	"	74.5%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/31/06 16:48

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H11036 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6H11036-BS3)														
Extracted: 08/11/06 13:54														
Phenanthrene	EPA	16.6	0.0259	1.00	ug/l	10x	-	20.0	83.0%	(47-125)	-	-	08/28/06 11:44	
	8270C-HVI													
Pyrene	*	16.8	0.0244	1.00	*	*	-	*	84.0%	*	-	-	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 74.5% Limits: 20-125% * 08/28/06 11:44														
1-Methylnaphthalene-d10 60.0% 39-125% *														

LCS Dup (6H11036-BSD3)

Extracted: 08/11/06 13:54														
Acenaphthene	EPA	17.4	0.0271	1.00	ug/l	10x	-	20.0	87.0%	(44-125)	12.8%	(35)	08/28/06 12:17	
	8270C-HVI													
Acenaphthylene	*	19.1	0.0252	1.00	*	*	-	*	95.5%	(51-125)	12.8%	*	*	
Anthracene	*	19.3	0.0284	1.00	*	*	-	*	96.5%	(50-125)	10.4%	*	*	
Benzo (a) anthracene	*	19.3	0.0158	0.100	*	*	-	*	96.5%	*	6.97%	*	*	
Benzo (a) pyrene	*	18.5	0.0315	0.100	*	*	-	*	92.5%	(47-125)	6.13%	*	*	
Benzo (b) fluoranthene	*	17.6	0.0206	0.100	*	*	-	*	88.0%	(50-125)	0.570%	*	*	
Benzo (k) fluoranthene	*	20.1	0.0186	0.100	*	*	-	*	100%	(46-125)	6.68%	*	*	
Benzo (ghi) perylene	*	18.8	0.0296	1.00	*	*	-	*	94.0%	(49-125)	7.73%	*	*	
Chrysene	*	19.9	0.0188	0.100	*	*	-	*	99.5%	(53-125)	7.29%	*	*	
Dibenz (a,h) anthracene	*	18.4	0.0250	0.100	*	*	-	*	92.0%	(47-125)	5.01%	*	*	
Fluoranthene	*	19.9	0.0196	1.00	*	*	-	*	99.5%	(55-125)	7.29%	*	*	
Fluorene	*	19.0	0.0357	1.00	*	*	-	*	95.0%	(52-125)	14.7%	*	*	
Indeno (1,2,3-cd) pyrene	*	18.7	0.0246	0.100	*	*	-	*	93.5%	(49-125)	5.49%	*	*	
1-Methylnaphthalene	*	15.5	0.0223	1.00	*	*	-	*	77.5%	(37-125)	8.75%	*	*	
2-Methylnaphthalene	*	13.3	0.0228	1.00	*	*	-	*	66.5%	(40-125)	7.81%	*	*	
Naphthalene	*	17.2	0.0419	1.00	*	*	-	*	86.0%	(42-125)	14.3%	*	*	
Phenanthrene	*	18.5	0.0259	1.00	*	*	-	*	92.5%	(47-125)	10.8%	*	*	
Pyrene	*	19.2	0.0244	1.00	*	*	-	*	96.0%	*	13.3%	*	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 76.7% Limits: 20-125% * 08/28/06 12:17														
1-Methylnaphthalene-d10 62.9% 39-125% *														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 08/31/06 16:48
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H09067 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H09067-BLK1)										Extracted: 08/09/06 21:26				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	08/09/06 21:32	
LCS (6H09067-BS1)										Extracted: 08/09/06 21:26				
Turbidity	EPA 180.1	14.4	—	1.00	NTU	1x	—	14.5	99.3%	(90-110)	—	—	08/09/06 21:32	
Duplicate (6H09067-DUP1)										QC Source: BPH0208-01 Extracted: 08/09/06 21:26				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	NR	(20)	08/09/06 21:32	

QC Batch: 6H09069 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6H09069-DUP1)										QC Source: BPH0208-01 Extracted: 08/09/06 21:31				
pH	EPA 150.1	7.06	—		pH Units	1x	7.06	—	—	—	0.00%	(10)	08/09/06 21:31	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
08/31/06 16:48

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BP-HD208					
		Laboratory: TEST AMERICA		Project Manager: KATE HANEY		SHIPMENT INFORMATION					
		Address: 11720 NORTHCREEK PKWAY #400 425-420-9206		City/State/ZIP: BOTHELL, WA 98011		Shipment Method: LAB PERSONNEL					
BNSF PROJECT INFORMATION		Project State of Origin: WA		CONSULTANT INFORMATION				Project Number: BN050-19370-220			
BNSF Project Name: SKYKOMISH LEVEE		Project City: SKYKOMISH		Company: THE RETEC GROUP INC.				Project Manager: HALEH VOGES / S. HOWARD			
BNSF Contact: BRUCE SHEPPARD		BNSF Work Order No: TT0100-G06		Address: 1011 SW KLIKITAT WAY #207				Email:			
				City/State/ZIP: SEATTLE WA 98134				Phone: 206-624-9399 ext. 206-624-2839			
TURNAROUND TIME			DELIVERABLES ☐ Other Deliverables?			METHODS FOR ANALYSIS					
☐ 1-day Rush ☐ 5- to 8-day Rush ☐ 2-day Rush ☒ Standard 10-Day ☐ 3-day Rush ☐ Other _____			☐ BNSF Standard (Level II) ☐ Level III ☒ EDD Req. Format? ☐ Level IV			PH, TURBIDITY BTEX NWTPH-DX As, Pb by 20.8 *DAH					
SAMPLE INFORMATION											
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix			COMMENTS	LAB USE
SKY-NPDES-EFF-080906	9	08/09/06	1005	AT	N	G	W	X	X	X	X
SKY-NPDES-INF-080906	2	08/09/06	1000	AT	N	G	W		X		
SKY-NPDES-TB-080906	1	8/9/06		-	-	-	W		X		
RLS! TURBIDITY: 5NTU, BENZENE 1.2 mg/L, BTEX: 100 ug/L, NWTPH-DX SAME AS SKYKOMISH TOTAL Pb: 17.5 mg/L, TOTAL As: 360 ug/L, ANTHRACENE 2400 ug/L, FLUORENE 640 ug/L NAPHTHALENE 160 ug/L, PYRENE 180 ug/L, BENZO(A)ANTHRACENE, BENZO(A)ANTHRACENE BENZO(G)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(G)PYRENE, CHRYSENE DIBENZO(A,H)ANTHRACENE, IDENO(1,2,3-cd)PYRENE: 0.0028 ug/L OR 0.01 ug/L EACH ACENAPHTHENE 643 ug/L, FLUORANTHENE 90.2 ug/L PER E-MAIL											
Relinquished By:	Date/Time: 8-9-06 12:00	Received By:				Date/Time: 8-9-06 13:45		Comments and Special Analytical Requirements: 9.1° w/15			
Relinquished By:	Date/Time:	Received By:				Date/Time:					
Relinquished By:	Date/Time:	Received By:				Date/Time:		Custody Seal No.:			
Received by Laboratory:	Date/Time:	Lab Remarks:				Lab Custody Intact? ☒ Yes ☐ No		BNSF COC No.:			

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

September 11, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 08/16/06 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 09/11/06 14:49.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPH0381	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-8/16/6	BPH0381-01	Water	08/16/06 13:15	08/16/06 15:50
SKY-WF-8/16/6	BPH0381-02	Water	08/16/06 13:25	08/16/06 15:50
SKY-TB-8/16/6	BPH0381-03	Water	08/16/06 12:00	08/16/06 15:50
SKY-BKGD-8/16/6	BPH0381-04	Water	08/16/06 13:30	08/16/06 15:50

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:49

Analytical Case Narrative TestAmerica - Seattle, WA

BPH0381

DESCRIPTION OF CASE

Three water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Total Metals by EPA 200 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods. Arsenic and Lead were added 09/06/06 per Jennifer Fetting.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

SAMPLE RECEIPT

The samples were received August 16th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 12.0 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

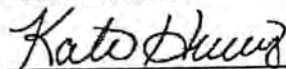
Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0381-01 (SKY-EFF-8/16/6)		Water		Sampled: 08/16/06 13:15						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0404	0.253	mg/l	1x	6H19016	08/19/06 13:58	08/21/06 13:33	
Lube Oil Range Hydrocarbons	*	ND	0.0909	0.505	*	*	*	*	*	
Surrogate(s): 2-FBP			70.0%		53 - 125 %	*			*	
Octacosane			75.5%		68 - 125 %	*			*	
BPH0381-02 (SKY-WF-8/16/6)		Water		Sampled: 08/16/06 13:25						
Diesel Range Hydrocarbons	NWTPH-Dx	0.210	0.0408	0.255	mg/l	1x	6H19016	08/19/06 13:58	08/21/06 14:02	J
Lube Oil Range Hydrocarbons	*	ND	0.0918	0.510	*	*	*	*	*	
Surrogate(s): 2-FBP			82.4%		53 - 125 %	*			*	
Octacosane			84.3%		68 - 125 %	*			*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:49

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0381-01 (SKY-EFF-8/16/6)		Water		Sampled: 08/16/06 13:15						
Arsenic	EPA 200.8	0.000790	0.000430	0.00100	mg/l	1x	6107030	09/07/06 13:12	09/08/06 14:42	J
Lead	*	0.000710	0.000140	0.00100	*	*	*	*	*	J

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:
 09/11/06 14:49

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0381-01 (SKY-EFF-8/16/6)		Water		Sampled: 08/16/06 13:15						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H17015	08/17/06 15:39	08/17/06 21:23	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			91.0%		70 - 130 %	"				"
Toluene-d8			99.0%		75 - 125 %	"				"
4-BFB			84.0%		75 - 125 %	"				"
BPH0381-03 (SKY-TB-8/16/6)		Water		Sampled: 08/16/06 12:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H17015	08/17/06 15:39	08/17/06 20:53	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			90.0%		70 - 130 %	"				"
Toluene-d8			100%		75 - 125 %	"				"
4-BFB			83.5%		75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:49

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0381-01 (SKY-EFF-8/16/6)		Water		Sampled: 08/16/06 13:15						
Acenaphthene	EPA 8270C-HVI	0.00522	0.00258	0.0952	ug/l	1x	6H21020	08/21/06 09:30	08/28/06 15:46	J
Acenaphthylene	"	ND	0.00240	0.0952	"	"	"	"	"	
Anthracene	"	ND	0.00270	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00150	0.00952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00300	0.00952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00196	0.00952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00177	0.00952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00282	0.0952	"	"	"	"	"	
Chrysene	"	ND	0.00179	0.00952	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00238	0.00952	"	"	"	"	"	
Fluoranthene	"	ND	0.00187	0.0952	"	"	"	"	"	
Fluorene	"	ND	0.00340	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00234	0.00952	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00212	0.0952	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00217	0.0952	"	"	"	"	"	
Naphthalene	"	ND	0.00399	0.0952	"	"	"	"	"	
Phenanthrene	"	ND	0.00247	0.0952	"	"	"	"	"	
Pyrene	"	ND	0.00232	0.0952	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			67.9%		20 - 125 %	"				
1-Methylnaphthalene-d10			103%		39 - 125 %	"				

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:49

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0381-01 (SKY-EFF-8/16/6)		Water		Sampled: 08/16/06 13:15						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6H17036	08/17/06 14:22	08/17/06 15:39	
BPH0381-04 (SKY-BKGD-8/16/6)		Water		Sampled: 08/16/06 13:30						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6H17036	08/17/06 14:22	08/17/06 15:39	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/11/06 14:49
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H19016 Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H19016-BLK1)														
Extracted: 08/19/06 13:58														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	-	-	-	-	-	-	08/21/06 12:04	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	-	-	-	-	-	-	"	
Surrogate(s): 2-FBP Recovery: 75.2% Limits: 53-125% " 08/21/06 12:04														
Octacosane 83.2% 68-125% "														
LCS (6H19016-BS1)														
Extracted: 08/19/06 13:58														
Diesel Range Hydrocarbons	NWTPH-Dx	1.49	0.0400	0.250	mg/l	1x	-	2.00	74.5%	(61-132)	-	-	08/21/06 12:34	
Surrogate(s): 2-FBP Recovery: 79.2% Limits: 53-125% " 08/21/06 12:34														
Octacosane 91.2% 68-125% "														
LCS Dup (6H19016-BSD1)														
Extracted: 08/19/06 13:58														
Diesel Range Hydrocarbons	NWTPH-Dx	1.45	0.0400	0.250	mg/l	1x	-	2.00	72.5%	(61-132)	2.72% (40)	-	08/21/06 13:03	
Surrogate(s): 2-FBP Recovery: 78.4% Limits: 53-125% " 08/21/06 13:03														
Octacosane 85.2% 68-125% "														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:49

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6I07030

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I07030-BLK1)														Extracted: 09/07/06 13:12
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	—	—	—	—	—	—	09/08/06 14:13	
Lead	"	0.000820	0.000140	0.00100	"	"	—	—	—	—	—	—	"	J
LCS (6I07030-BS1)														Extracted: 09/07/06 13:12
Lead	EPA 200.8	0.0729	0.000140	0.00100	mg/l	1x	—	0.0800	91.1%	(85-115)	—	—	09/08/06 14:19	
Arsenic	"	0.0719	0.000430	0.00100	"	"	—	"	89.9%	"	—	—	"	
Duplicate (6I07030-DUP1)														QC Source: BPH0381-01 Extracted: 09/07/06 13:12
Arsenic	EPA 200.8	0.000880	0.000430	0.00100	mg/l	1x	0.000790	—	—	—	10.8%	(20)	09/08/06 14:30	J
Lead	"	0.000750	0.000140	0.00100	"	"	0.000710	—	—	—	5.48%	"	"	J
Matrix Spike (6I07030-MS1)														QC Source: BPH0381-01 Extracted: 09/07/06 13:12
Lead	EPA 200.8	0.0722	0.000140	0.00100	mg/l	1x	0.000710	0.0800	89.4%	(75-125)	—	—	09/08/06 14:25	
Arsenic	"	0.0733	0.000430	0.00100	"	"	0.000790	"	90.6%	"	—	—	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:49

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H17015 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H17015-BLK1)														
Extracted: 08/17/06 15:39														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	08/17/06 17:16	
Ethylbenzene	"	ND	0.125	0.500	"	"	-	-	-	-	-	-	"	
Methyl tert-butyl ether	"	ND	0.248	1.00	"	"	-	-	-	-	-	-	"	
Toluene	"	ND	0.127	0.500	"	"	-	-	-	-	-	-	"	
Total Xylenes	"	ND	0.298	3.00	"	"	-	-	-	-	-	-	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	90.5%	Limits: 70-130%		"								08/17/06 17:16
Toluene-d8			98.5%	75-125%		"								"
4-BFB			84.5%	75-125%		"								"
LCS (6H17015-BS1)														
Extracted: 08/17/06 15:39														
Benzene	EPA 8260B	19.5	0.114	0.500	ug/l	1x	-	20.0	97.5%	(80-120)	-	-	08/17/06 16:22	
Ethylbenzene	"	22.1	0.125	0.500	"	"	-	"	110%	"	-	-	"	
Methyl tert-butyl ether	"	19.9	0.248	1.00	"	"	-	"	99.5%	"	-	-	"	
Toluene	"	20.0	0.127	0.500	"	"	-	"	100%	"	-	-	"	
Total Xylenes	"	59.5	0.298	3.00	"	"	-	60.0	99.2%	"	-	-	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	89.5%	Limits: 70-130%		"								08/17/06 16:22
Toluene-d8			98.0%	75-125%		"								"
4-BFB			84.5%	75-125%		"								"
LCS Dup (6H17015-BSD1)														
Extracted: 08/17/06 15:39														
Benzene	EPA 8260B	20.8	0.114	0.500	ug/l	1x	-	20.0	104%	(80-120)	6.45%	(20)	08/17/06 16:47	
Ethylbenzene	"	23.2	0.125	0.500	"	"	-	"	116%	"	4.86%	"	"	
Methyl tert-butyl ether	"	20.3	0.248	1.00	"	"	-	"	102%	"	1.99%	"	"	
Toluene	"	21.7	0.127	0.500	"	"	-	"	108%	"	8.15%	"	"	
Total Xylenes	"	62.8	0.298	3.00	"	"	-	60.0	105%	"	5.40%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	89.5%	Limits: 70-130%		"								08/17/06 16:47
Toluene-d8			100%	75-125%		"								"
4-BFB			85.0%	75-125%		"								"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:49

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H21020

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H21020-BLK2)										Extracted: 08/21/06 09:30				
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	-	-	-	-	-	-	08/28/06 14:08	
Acenaphthylene	*	ND	0.00252	0.100	*	*	-	-	-	-	-	-	*	
Anthracene	*	ND	0.00284	0.100	*	*	-	-	-	-	-	-	*	
Benzo (a) anthracene	*	ND	0.00158	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (a) pyrene	*	ND	0.00315	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (b) fluoranthene	*	ND	0.00206	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (k) fluoranthene	*	ND	0.00186	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (ghi) perylene	*	ND	0.00296	0.100	*	*	-	-	-	-	-	-	*	
Chrysene	*	ND	0.00188	0.0100	*	*	-	-	-	-	-	-	*	
Dibenz (a,h) anthracene	*	ND	0.00250	0.0100	*	*	-	-	-	-	-	-	*	
Fluoranthene	*	ND	0.00196	0.100	*	*	-	-	-	-	-	-	*	
Fluorene	*	ND	0.00357	0.100	*	*	-	-	-	-	-	-	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00246	0.0100	*	*	-	-	-	-	-	-	*	
1-Methylnaphthalene	*	ND	0.00223	0.100	*	*	-	-	-	-	-	-	*	
2-Methylnaphthalene	*	ND	0.00228	0.100	*	*	-	-	-	-	-	-	*	
Naphthalene	*	ND	0.00419	0.100	*	*	-	-	-	-	-	-	*	
Phenanthrene	*	ND	0.00259	0.100	*	*	-	-	-	-	-	-	*	
Pyrene	*	ND	0.00244	0.100	*	*	-	-	-	-	-	-	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 67.6% Limits: 20-125% *														
1-Methylnaphthalene-d10 92.9% 39-125% *														

LCS (6H21020-BS2)

										Extracted: 08/21/06 09:30				
Acenaphthene	EPA 8270C-HVI	16.2	0.0271	1.00	ug/l	10x	-	20.0	81.0%	(44-125)	-	-	08/28/06 14:41	
Acenaphthylene	*	17.9	0.0252	1.00	*	*	-	*	89.5%	(51-125)	-	-	*	
Anthracene	*	18.5	0.0284	1.00	*	*	-	*	92.5%	(50-125)	-	-	*	
Benzo (a) anthracene	*	18.6	0.0158	0.100	*	*	-	*	93.0%	*	-	-	*	
Benzo (a) pyrene	*	17.5	0.0315	0.100	*	*	-	*	87.5%	(47-125)	-	-	*	
Benzo (b) fluoranthene	*	17.1	0.0206	0.100	*	*	-	*	85.5%	(50-125)	-	-	*	
Benzo (k) fluoranthene	*	19.9	0.0186	0.100	*	*	-	*	99.5%	(46-125)	-	-	*	
Benzo (ghi) perylene	*	17.7	0.0296	1.00	*	*	-	*	88.5%	(49-125)	-	-	*	
Chrysene	*	18.9	0.0188	0.100	*	*	-	*	94.5%	(53-125)	-	-	*	
Dibenz (a,h) anthracene	*	17.3	0.0250	0.100	*	*	-	*	86.5%	(47-125)	-	-	*	
Fluoranthene	*	20.0	0.0196	1.00	*	*	-	*	100%	(55-125)	-	-	*	
Fluorene	*	18.2	0.0357	1.00	*	*	-	*	91.0%	(52-125)	-	-	*	
Indeno (1,2,3-cd) pyrene	*	17.7	0.0246	0.100	*	*	-	*	88.5%	(49-125)	-	-	*	
1-Methylnaphthalene	*	14.2	0.0223	1.00	*	*	-	*	71.0%	(37-125)	-	-	*	
2-Methylnaphthalene	*	12.0	0.0228	1.00	*	*	-	*	60.0%	(40-125)	-	-	*	
Naphthalene	*	16.3	0.0419	1.00	*	*	-	*	81.5%	(42-125)	-	-	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:49

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H21020 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6H21020-BS2)														
Extracted: 08/21/06 09:30														
Phenanthrene	EPA 8270C-HVI	17.5	0.0259	1.00	ug/l	10x	—	20.0	87.5%	(47-125)	—	—	08/28/06 14:41	
Pyrene	"	18.5	0.0244	1.00	"	"	—	"	92.5%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 75.9%		Limits: 20-125%		"						08/28/06 14:41		
1-Methylnaphthalene-d10		61.9%		39-125%		"						"		
LCS Dup (6H21020-BSD2)														
Extracted: 08/21/06 09:30														
Acenaphthene	EPA 8270C-HVI	16.7	0.0271	1.00	ug/l	10x	—	20.0	83.5%	(44-125)	3.04%	(35)	08/28/06 15:13	
Acenaphthylene	"	18.6	0.0252	1.00	"	"	—	"	93.0%	(51-125)	3.84%	"	"	
Anthracene	"	18.6	0.0284	1.00	"	"	—	"	93.0%	(50-125)	0.539%	"	"	
Benzo (a) anthracene	"	18.9	0.0158	0.100	"	"	—	"	94.5%	"	1.60%	"	"	
Benzo (a) pyrene	"	18.2	0.0315	0.100	"	"	—	"	91.0%	(47-125)	3.92%	"	"	
Benzo (b) fluoranthene	"	18.4	0.0206	0.100	"	"	—	"	92.0%	(50-125)	7.32%	"	"	
Benzo (k) fluoranthene	"	19.2	0.0186	0.100	"	"	—	"	96.0%	(46-125)	3.58%	"	"	
Benzo (ghi) perylene	"	18.9	0.0296	1.00	"	"	—	"	94.5%	(49-125)	6.56%	"	"	
Chrysene	"	19.7	0.0188	0.100	"	"	—	"	98.5%	(53-125)	4.15%	"	"	
Dibenz (a,h) anthracene	"	18.6	0.0250	0.100	"	"	—	"	93.0%	(47-125)	7.24%	"	"	
Fluoranthene	"	19.2	0.0196	1.00	"	"	—	"	96.0%	(55-125)	4.08%	"	"	
Fluorene	"	19.2	0.0357	1.00	"	"	—	"	96.0%	(52-125)	5.35%	"	"	
Indeno (1,2,3-cd) pyrene	"	18.9	0.0246	0.100	"	"	—	"	94.5%	(49-125)	6.56%	"	"	
1-Methylnaphthalene	"	15.3	0.0223	1.00	"	"	—	"	76.5%	(37-125)	7.46%	"	"	
2-Methylnaphthalene	"	12.9	0.0228	1.00	"	"	—	"	64.5%	(40-125)	7.23%	"	"	
Naphthalene	"	16.7	0.0419	1.00	"	"	—	"	83.5%	(42-125)	2.42%	"	"	
Phenanthrene	"	18.0	0.0259	1.00	"	"	—	"	90.0%	(47-125)	2.82%	"	"	
Pyrene	"	18.5	0.0244	1.00	"	"	—	"	92.5%	"	0.00%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 77.7%		Limits: 20-125%		"						08/28/06 15:13		
1-Methylnaphthalene-d10		63.7%		39-125%		"						"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:49

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H17036

Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H17036-BLK1)										Extracted: 08/17/06 14:22				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	08/17/06 15:39	
LCS (6H17036-BS1)										Extracted: 08/17/06 14:22				
Turbidity	EPA 180.1	14.5	—	1.00	NTU	1x	—	14.5	100%	(90-110)	—	—	08/17/06 15:39	
Duplicate (6H17036-DUP1)										QC Source: BPH0381-01				
										Extracted: 08/17/06 14:22				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	NR	(20)	08/17/06 15:39	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:49

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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 RAILWAY CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BPHC381			
		Laboratory: Test America Address: 11720 North Creek Pkwy N, #40 City/State/Zip: Bothell WA 98011		Project Manager: Kate Hancy Phone: 425-420-9249 Fax:		SHIPMENT INFORMATION			
BNSF PROJECT INFORMATION		Project State of Origin: WA Project City: Skykomish		CONSULTANT INFORMATION				Project Number: BNDSD-19390 Project Manager: S. Howard	
BNSF Project Name: Skykomish BNSF Contact: Bruce Sheppard		BNSF Work Order No.: TTO100-G06		Company: The RETEC Group Inc. Address: 10115 NW Kickapoo Way #207 City/State/Zip: Seattle WA 98134				Email: Showard@retec.com Phone: 206-624-9349 Fax: 206-624-2039	
TURNAROUND TIME ☒ 1-day Rush ☐ 2-day Rush ☐ 3-day Rush ☐ 5- to 8-day Rush ☒ Standard 10-Day ☐ Other		DELIVERABLES ☐ Other Deliverables? ☐ BNSF Standard (Level II) ☐ Level III ☐ Level IV ☒ EDD Req. Format? RETEC				METHODS FOR ANALYSIS NAPHA SX PAX BTEX Turbidity			
SAMPLE INFORMATION									
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix		
		Date	Time	Sampler					
1. SKY-NPDES-PFF-081606	9	8/16/06	1315	AH	N	G	W	X	-01
2. SKY-NPDES-INF-081606	2	8/16/06	1325	SM	N	G	W	X	-02
3. SKY-NPDES-TB-081606	1	8/16/06	-	-	-	-	W	X	-03
4. SKY-NPDES-BKGD-081606	1	8/16/06	1330	AH	N	G	W	X	-04
5. RL's as requested on e-mail. Please call at 206-321-0074 if you have questions									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
Relinquished By:	Date/Time: 8/16/06 1420	Received By: Michelle R-159				Date/Time: 8/16/06 14:30		Comments and Special Analytical Requirements:	
Relinquished By:	Date/Time:	Received By: Collette Weaver				Date/Time: 8/16/06 1550			
Relinquished By:	Date/Time:	Received By:				Date/Time:			
Received by Laboratory:	Date/Time:	Lab Remarks:				Lab Custody Intact? ☒ Yes ☐ No		Custody Seal No.:	BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

12.0°C W/Ls

Rev 10/02/05

September 11, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 08/23/06 16:10.
The following list is a summary of the Work Orders contained in this report, generated on 09/11/06 14:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPH0545	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/11/06 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-8/23/06	BPH0545-01	Water	08/23/06 11:30	08/23/06 16:10
SKY-INF-8/23/06	BPH0545-02	Water	08/23/06 11:30	08/23/06 16:10
SKY-TB-8/23/06	BPH0545-03	Water	08/23/06 12:00	08/23/06 16:10
SKY-BKGD-8/23/06	BPH0545-04	Water	08/23/06 11:21	08/23/06 16:10

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:56

Analytical Case Narrative
TestAmerica - Seattle, WA

BPH0545

DESCRIPTION OF CASE

Three water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods. Arsenic and Lead were added 09/06/06 per Jennifer Fetting.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

SAMPLE RECEIPT

The samples were received August 23rd, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.0 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals per EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: Laboratory batch 6H28016 had several detections in the method blank. The samples was ND for all analytes detected in the method blank. The sample was re-extracted outside the method hold time to confirm the initial results. The re-extract of the sample was ND for all analytes with detections in the initial method blank indicating that the detections in the method blank for batch 6H28016 were due to an extraction anomaly. 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 the report.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/11/06 14:56

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0545-01 (SKY-EFF-8/23/06)		Water			Sampled: 08/23/06 11:30					
Diesel Range Hydrocarbons	NWTPH-Dx	0.0996	0.0377	0.236	mg/l	1x	6H28018	08/28/06 10:33	08/30/06 16:36	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		80.1%		53 - 125 %		"		"		
Octacosane		88.6%		68 - 125 %		"		"		
BPH0545-02 (SKY-INF-8/23/06)		Water			Sampled: 08/23/06 11:30					
Diesel Range Hydrocarbons	NWTPH-Dx	0.100	0.0377	0.236	mg/l	1x	6H28018	08/28/06 10:33	08/30/06 17:06	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		86.9%		53 - 125 %		"		"		
Octacosane		93.6%		68 - 125 %		"		"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:56

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0545-01 (SKY-EFF-8/23/06)		Water		Sampled: 08/23/06 11:30						
Arsenic	EPA 200.8	0.000800	0.000430	0.00100	mg/l	1x	6107030	09/07/06 13:12	09/08/06 15:34	J
Lead	*	0.000670	0.000140	0.00100	*	*	*	*	*	J

TestAmerica - Seattle, WA

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Kate Haney, Project Manager

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Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/11/06 14:56

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0545-01 (SKY-EFF-8/23/06)		Water		Sampled: 08/23/06 11:30						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H25037	08/24/06 19:32	08/25/06 08:22	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			104%		70 - 130 %	"			"	
Toluene-d8			102%		75 - 125 %	"			"	
4-BFB			99.0%		75 - 125 %	"			"	
BPH0545-03 (SKY-TB-8/23/06)		Water		Sampled: 08/23/06 12:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6H25037	08/24/06 19:32	08/24/06 23:56	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			101%		70 - 130 %	"			"	
Toluene-d8			102%		75 - 125 %	"			"	
4-BFB			101%		75 - 125 %	"			"	

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Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:56

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0545-01 (SKY-EFF-8/23/06)		Water Sampled: 08/23/06 11:30								
Acenaphthene	EPA 8270C-HVI	ND	0.00256	0.0943	ug/l	1x	6H28016	08/28/06 10:28	08/29/06 18:39	
Acenaphthylene	*	ND	0.00238	0.0943	*	*	*	*	*	
Anthracene	*	ND	0.00268	0.0943	*	*	*	*	*	
Benzo (a) anthracene	*	ND	0.00149	0.00943	*	*	*	*	*	
Benzo (a) pyrene	*	ND	0.00297	0.00943	*	*	*	*	*	
Benzo (b) fluoranthene	*	ND	0.00194	0.00943	*	*	*	*	*	
Benzo (k) fluoranthene	*	ND	0.00175	0.00943	*	*	*	*	*	
Benzo (ghi) perylene	*	ND	0.00279	0.0943	*	*	*	*	*	
Chrysene	*	ND	0.00177	0.00943	*	*	*	*	*	
Dibenz (a,h) anthracene	*	ND	0.00236	0.00943	*	*	*	*	*	
Fluoranthene	*	ND	0.00185	0.0943	*	*	*	*	*	
Fluorene	*	ND	0.00337	0.0943	*	*	*	*	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00232	0.00943	*	*	*	*	*	
1-Methylnaphthalene	*	ND	0.00210	0.0943	*	*	*	*	*	
2-Methylnaphthalene	*	ND	0.00215	0.0943	*	*	*	*	*	
Naphthalene	*	ND	0.00395	0.0943	*	*	*	*	*	
Phenanthrene	*	0.00823	0.00244	0.0943	*	*	*	*	*	J
Pyrene	*	ND	0.00230	0.0943	*	*	*	*	*	
Surrogate(s): Benzo (a) pyrene-d12			83.7%		20 - 125 %	*			*	
1-Methylnaphthalene-d10			64.3%		39 - 125 %	*			*	

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Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 09/11/06 14:56

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0545-01 (SKY-EFF-8/23/06)		Water		Sampled: 08/23/06 11:30						
pH	EPA 150.1	7.55	—		pH Units	1x	6H24037	08/23/06 18:23	08/23/06 18:23	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6H24056	08/24/06 17:57	08/24/06 18:04	
BPH0545-04 (SKY-BKGD-8/23/06)		Water		Sampled: 08/23/06 11:21						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6H24056	08/24/06 17:57	08/24/06 18:04	

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Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:56

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H28018 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H28018-BLK1)														
Extracted: 08/28/06 10:33														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	-	-	-	-	-	-	08/30/06 15:08	
Lube Oil Range Hydrocarbons	*	ND	0.0900	0.500	"	"	-	-	-	-	-	-		
Surrogate(s): 2-FBP		Recovery: 88.0%		Limits: 53-125%	"								08/30/06 15:08	
Octacosane		98.8%		68-125%	"									
LCS (6H28018-BS1)														
Extracted: 08/28/06 10:33														
Diesel Range Hydrocarbons	NWTPH-Dx	1.67	0.0400	0.250	mg/l	1x	-	2.00	83.5%	(61-132)	-	-	08/30/06 15:37	
Surrogate(s): 2-FBP		Recovery: 92.4%		Limits: 53-125%	"								08/30/06 15:37	
Octacosane		99.6%		68-125%	"									
LCS Dup (6H28018-BSD1)														
Extracted: 08/28/06 10:33														
Diesel Range Hydrocarbons	NWTPH-Dx	1.61	0.0400	0.250	mg/l	1x	-	2.00	80.5%	(61-132)	3.66%	(40)	08/30/06 16:07	
Surrogate(s): 2-FBP		Recovery: 88.8%		Limits: 53-125%	"								08/30/06 16:07	
Octacosane		93.2%		68-125%	"									

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Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 09/11/06 14:56

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6107030

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6107030-BLK1)														
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	—	—	—	—	—	—	09/08/06 14:13	
Lead	"	0.000820	0.000140	0.00100	"	"	—	—	—	—	—	—	"	J
LCS (6107030-BS1)														
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.0719	0.000430	0.00100	mg/l	1x	—	0.0800	89.9%	(85-115)	—	—	09/08/06 14:19	
Lead	"	0.0729	0.000140	0.00100	"	"	—	"	91.1%	"	—	—	"	
Duplicate (6107030-DUP1)														
								QC Source: BPH0381-01						
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.000880	0.000430	0.00100	mg/l	1x	0.000790	—	—	—	10.8% (20)	—	09/08/06 14:30	J
Lead	"	0.000750	0.000140	0.00100	"	"	0.000710	—	—	—	5.48% *	—	"	J
Matrix Spike (6107030-MS1)														
								QC Source: BPH0381-01						
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.0733	0.000430	0.00100	mg/l	1x	0.000790	0.0800	90.6%	(75-125)	—	—	09/08/06 14:25	
Lead	"	0.0722	0.000140	0.00100	"	"	0.000710	"	89.4%	"	—	—	"	

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Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:56

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6H25037 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H25037-BLK1)														
Extracted: 08/24/06 19:32														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	08/24/06 23:26	
Ethylbenzene	"	ND	0.125	0.500	"	"	-	-	-	-	-	-	"	
Toluene	"	ND	0.127	0.500	"	"	-	-	-	-	-	-	"	
Total Xylenes	"	ND	0.298	3.00	"	"	-	-	-	-	-	-	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 102% Limits: 70-130% " 08/24/06 23:26														
Toluene-d8 103% 75-125% " "														
4-BFB 100% 75-125% " "														
LCS (6H25037-BS1)														
Extracted: 08/24/06 19:32														
Benzene	EPA 8260B	21.1	0.114	0.500	ug/l	1x	-	20.0	106%	(80-120)	-	-	08/24/06 22:26	
Ethylbenzene	"	21.6	0.125	0.500	"	"	-	"	108%	"	-	-	"	
Toluene	"	22.1	0.127	0.500	"	"	-	"	110%	"	-	-	"	
Total Xylenes	"	65.2	0.298	3.00	"	"	-	60.0	109%	"	-	-	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 98.0% Limits: 70-130% " 08/24/06 22:26														
Toluene-d8 102% 75-125% " "														
4-BFB 102% 75-125% " "														
LCS Dup (6H25037-BSD1)														
Extracted: 08/24/06 19:32														
Benzene	EPA 8260B	19.9	0.114	0.500	ug/l	1x	-	20.0	99.5%	(80-120)	5.85%	(20)	08/24/06 22:56	
Ethylbenzene	"	20.0	0.125	0.500	"	"	-	"	100%	"	7.69%	"	"	
Toluene	"	20.3	0.127	0.500	"	"	-	"	102%	"	8.49%	"	"	
Total Xylenes	"	60.0	0.298	3.00	"	"	-	60.0	100%	"	8.31%	"	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 99.0% Limits: 70-130% " 08/24/06 22:56														
Toluene-d8 98.0% 75-125% " "														
4-BFB 102% 75-125% " "														

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Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:56

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H28016 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H28016-BLK2)														
Extracted: 08/28/06 10:28														
Acenaphthene	EPA 8270C-HVI	0.0159	0.00271	0.100	ug/l	1x	—	—	—	—	—	—	08/29/06 18:06	J
Acenaphthylene	"	0.0116	0.00252	0.100	"	"	—	—	—	—	—	—	"	J
Anthracene	"	0.0134	0.00284	0.100	"	"	—	—	—	—	—	—	"	J
Benzo (a) anthracene	"	0.0244	0.00158	0.0100	"	"	—	—	—	—	—	—	"	B
Benzo (a) pyrene	"	0.0343	0.00315	0.0100	"	"	—	—	—	—	—	—	"	B
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	—	—	—	—	—	—	"	B
Benzo (k) fluoranthene	"	0.0468	0.00186	0.0100	"	"	—	—	—	—	—	—	"	B
Benzo (ghi) perylene	"	0.0404	0.00296	0.100	"	"	—	—	—	—	—	—	"	J
Chrysene	"	0.0173	0.00188	0.0100	"	"	—	—	—	—	—	—	"	B
Dibenz (a,h) anthracene	"	0.0486	0.00250	0.0100	"	"	—	—	—	—	—	—	"	B
Fluoranthene	"	0.0185	0.00196	0.100	"	"	—	—	—	—	—	—	"	J
Fluorene	"	ND	0.00357	0.100	"	"	—	—	—	—	—	—	"	J
Indeno (1,2,3-cd) pyrene	"	0.0474	0.00246	0.0100	"	"	—	—	—	—	—	—	"	B
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	—	—	—	—	—	—	"	J
2-Methylnaphthalene	"	0.00914	0.00228	0.100	"	"	—	—	—	—	—	—	"	J
Naphthalene	"	ND	0.00419	0.100	"	"	—	—	—	—	—	—	"	J
Phenanthrene	"	0.0188	0.00259	0.100	"	"	—	—	—	—	—	—	"	J
Pyrene	"	0.0149	0.00244	0.100	"	"	—	—	—	—	—	—	"	J
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 68.2% Limits: 20-125% " 08/29/06 18:06														
1-Methylnaphthalene-d10 90.1% 39-125% "														

LCS (6H28016-BS2)

Extracted: 08/28/06 10:28														
Acenaphthene	EPA 8270C-HVI	17.2	0.0271	1.00	ug/l	10x	—	20.0	86.0%	(44-125)	—	—	08/29/06 17:00	
Acenaphthylene	"	19.1	0.0252	1.00	"	"	—	"	95.5%	(51-125)	—	—	"	
Anthracene	"	18.4	0.0284	1.00	"	"	—	"	92.0%	(50-125)	—	—	"	
Benzo (a) anthracene	"	18.7	0.0158	0.100	"	"	—	"	93.5%	"	—	—	"	B
Benzo (a) pyrene	"	16.5	0.0315	0.100	"	"	—	"	82.5%	(47-125)	—	—	"	B
Benzo (b) fluoranthene	"	17.8	0.0206	0.100	"	"	—	"	89.0%	(50-125)	—	—	"	
Benzo (k) fluoranthene	"	17.2	0.0186	0.100	"	"	—	"	86.0%	(46-125)	—	—	"	B
Benzo (ghi) perylene	"	16.7	0.0296	1.00	"	"	—	"	83.5%	(49-125)	—	—	"	
Chrysene	"	18.3	0.0188	0.100	"	"	—	"	91.5%	(53-125)	—	—	"	B
Dibenz (a,h) anthracene	"	15.9	0.0250	0.100	"	"	—	"	79.5%	(47-125)	—	—	"	B
Fluoranthene	"	19.9	0.0196	1.00	"	"	—	"	99.5%	(55-125)	—	—	"	
Fluorene	"	18.5	0.0357	1.00	"	"	—	"	92.5%	(52-125)	—	—	"	
Indeno (1,2,3-cd) pyrene	"	16.4	0.0246	0.100	"	"	—	"	82.0%	(49-125)	—	—	"	B
1-Methylnaphthalene	"	15.1	0.0223	1.00	"	"	—	"	75.5%	(37-125)	—	—	"	
2-Methylnaphthalene	"	13.4	0.0228	1.00	"	"	—	"	67.0%	(40-125)	—	—	"	
Naphthalene	"	17.0	0.0419	1.00	"	"	—	"	85.0%	(42-125)	—	—	"	

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Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:56

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H28016

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/28/06 10:28														
LCS (6H28016-BS2)														
Phenanthrene	EPA 8270C-HVI	19.1	0.0259	1.00	ug/l	10x	-	20.0	95.5%	(47-125)	-	-	08/29/06 17:00	
Pyrene	"	18.9	0.0244	1.00	"	"	-	"	94.5%	"	-	-	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 80.0%		Limits: 20-125%	"								08/29/06 17:00	
1-Methylnaphthalene-d10		66.4%		39-125%	"								"	

LCS Dup (6H28016-BSD2)

Extracted: 08/28/06 10:28														
Acenaphthene	EPA 8270C-HVI	16.5	0.0271	1.00	ug/l	10x	-	20.0	82.5%	(44-125)	4.15%	(35)	08/29/06 17:33	
Acenaphthylene	"	18.4	0.0252	1.00	"	"	-	"	92.0%	(51-125)	3.73%	"	"	
Anthracene	"	18.0	0.0284	1.00	"	"	-	"	90.0%	(50-125)	2.20%	"	"	
Benzo (a) anthracene	"	18.0	0.0158	0.100	"	"	-	"	90.0%	"	3.81%	"	"	B
Benzo (a) pyrene	"	16.2	0.0315	0.100	"	"	-	"	81.0%	(47-125)	1.83%	"	"	B
Benzo (b) fluoranthene	"	18.0	0.0206	0.100	"	"	-	"	90.0%	(50-125)	1.12%	"	"	
Benzo (k) fluoranthene	"	14.9	0.0186	0.100	"	"	-	"	74.5%	(46-125)	14.3%	"	"	B
Benzo (ghi) perylene	"	17.2	0.0296	1.00	"	"	-	"	86.0%	(49-125)	2.95%	"	"	
Chrysene	"	17.8	0.0188	0.100	"	"	-	"	89.0%	(53-125)	2.77%	"	"	B
Dibenz (a,h) anthracene	"	16.9	0.0250	0.100	"	"	-	"	84.5%	(47-125)	6.10%	"	"	B
Fluoranthene	"	17.4	0.0196	1.00	"	"	-	"	87.0%	(55-125)	13.4%	"	"	
Fluorene	"	19.3	0.0357	1.00	"	"	-	"	96.5%	(52-125)	4.23%	"	"	
Indeno (1,2,3-cd) pyrene	"	17.0	0.0246	0.100	"	"	-	"	85.0%	(49-125)	3.59%	"	"	B
1-Methylnaphthalene	"	15.5	0.0223	1.00	"	"	-	"	77.5%	(37-125)	2.61%	"	"	
2-Methylnaphthalene	"	12.9	0.0228	1.00	"	"	-	"	64.5%	(40-125)	3.80%	"	"	
Naphthalene	"	16.8	0.0419	1.00	"	"	-	"	84.0%	(42-125)	1.18%	"	"	
Phenanthrene	"	17.9	0.0259	1.00	"	"	-	"	89.5%	(47-125)	6.49%	"	"	
Pyrene	"	19.3	0.0244	1.00	"	"	-	"	96.5%	"	2.09%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 77.4%		Limits: 20-125%	"								08/29/06 17:33	
1-Methylnaphthalene-d10		61.0%		39-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/11/06 14:56
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H24037 **Water Preparation Method:** General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6H24037-DUP1)			QC Source: BPH0545-01				Extracted: 08/23/06 18:23							
pH	EPA 150.1	7.55	—		pH Units	1x	7.55	—	—	—	0.00% (10)		08/23/06 18:23	

QC Batch: 6H24056 **Water Preparation Method:** General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H24056-BLK1)			Extracted: 08/24/06 17:57											
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	08/24/06 18:04	
LCS (6H24056-BS1)			Extracted: 08/24/06 17:57											
Turbidity	EPA 180.1	14.5	—	1.00	NTU	1x	—	14.5	100%	(90-110)	—	—	08/24/06 18:04	
Duplicate (6H24056-DUP1)			QC Source: BPH0536-01				Extracted: 08/24/06 17:57							
Turbidity	EPA 180.1	1.00	—	1.00	NTU	1x	ND	—	—	—	6.19% (20)		08/24/06 18:04	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:56

Notes and Definitions

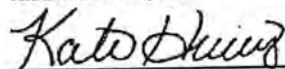
Report Specific Notes:

- B - Analyte detected in the method blank.
- J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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



 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BP40545					
		Laboratory: Test America Address: 11720 North Creek Parkway N City/State/Zip: Bothell WA 98011		Project Manager: Kate Harey Phone: 425-422-9249 Fax:		SHIPMENT INFORMATION					
BNSF PROJECT INFORMATION		Project State of Origin: WA Project City: Skykomish		CONSULTANT INFORMATION		Project Number: BN050-19390 Project Manager: S. Howard					
BNSF Project Number: BNSF Project Name: Skykomish BNSF Contact: Brace Sheppard		BNSF Work Order No.: TTO100-606		Company: The RETEC Group Address: 10115W Klickitat Way #207 City/State/Zip: Seattle WA 98134		Email: showard@retec.com Phone: 206-624-9349 Fax: 206-624-2099					
TURNAROUND TIME		DELIVERABLES		METHODS FOR ANALYSIS							
☐ 1-day Rush ☐ 2-day Rush ☐ 3-day Rush		☒ 5-day Rush 5 day ☐ Standard 10-Day ☐ Other		☐ BNSF Standard (Level II) ☐ Level III ☐ Level IV		☐ Other Deliverables? ☒ EDD Req. Format? RETEC					
SAMPLE INFORMATION											
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	NUTRA NO SG PAH BTEX Turbidity PH	COMMENTS	LAB USE	
1. SKY-NPDES-EFF-082306	9	8/23/06	1130	AH	N	G	W	X	X	X	-01
2. SKY-NPDES-INF-082306	2	8/23/06	1130	NAH	N	G	W	X			-02
3. SKY-NPDES-TB-082306	1	8/23/06		AH	-	G	W		X		-03
4. SKY-NPDES-BKGD-082306	1	8/23/06	1121	AH	N	G	W			X	-04
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
Relinquished By: <i>[Signature]</i> Relinquished By: Relinquished By: Received by Laboratory:		Date/Time: 8/23/06 1455 Date/Time: Date/Time: Date/Time:		Received By: KOMHA MYLON KY Received By: <i>[Signature]</i> Received By: Lab Remarks:		Date/Time: Date/Time: 8/23/06 1610 Date/Time: Lab: Custody Intact? ☐ Yes ☐ No		Comments and Special Analytical Requirements: Custody Seal No.: BNSF COC No.:			

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

September 11, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 08/30/06 16:30.
The following list is a summary of the Work Orders contained in this report, generated on 09/11/06
14:59.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPH0761	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-8/30/06	BPH0761-01	Water	08/30/06 09:15	08/30/06 16:30
SKY-INF-8/30/06	BPH0761-02	Water	08/30/06 09:05	08/30/06 16:30
SKY-TB-8/30/06	BPH0761-03	Water	08/30/06 12:00	08/30/06 16:30
SKY-BKGD-8/30/06	BPH0761-04	Water	08/30/06 09:25	08/30/06 16:30

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:59

Analytical Case Narrative

TestAmerica - Seattle, WA

BPH0761

DESCRIPTION OF CASE

Three water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods. Arsenic and Lead were added 09/06/06 per Jennifer Fetting.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

SAMPLE RECEIPT

The samples were received August 30th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.0 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

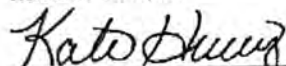
Total Metals per EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/11/06 14:59

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0761-01 (SKY-EFF-8/30/06)		Water		Sampled: 08/30/06 09:15						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0377	0.236	mg/l	1x	6H31012	08/31/06 09:29	09/06/06 09:53	
Lube Oil Range Hydrocarbons	*	ND	0.0849	0.472	*	*	*	*	*	
<i>Surrogate(s): 2-FBP</i>			76.7%		53 - 125 %	*			*	
<i>Octacosane</i>			90.7%		68 - 125 %	*			*	
BPH0761-02 (SKY-INF-8/30/06)		Water		Sampled: 08/30/06 09:05						
Diesel Range Hydrocarbons	NWTPH-Dx	0.0680	0.0385	0.240	mg/l	1x	6H31012	08/31/06 09:29	09/06/06 10:23	J
Lube Oil Range Hydrocarbons	*	ND	0.0865	0.481	*	*	*	*	*	
<i>Surrogate(s): 2-FBP</i>			83.3%		53 - 125 %	*			*	
<i>Octacosane</i>			91.2%		68 - 125 %	*			*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/11/06 14:59
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Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0761-01 (SKY-EFF-8/30/06)		Water				Sampled: 08/30/06 09:15				
Arsenic	EPA 200.8	0.000770	0.000430	0.00100	mg/l	1x	6107030	09/07/06 13:12	09/08/06 15:40	J
Lead	"	0.000680	0.000140	0.00100	"	"	"	"	"	J

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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09/11/06 14:59

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Page 6 of 15

The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/11/06 14:59

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0761-01 (SKY-EFF-8/30/06)		Water		Sampled: 08/30/06 09:15						
Acenaphthene	EPA 8270C-HVI	ND	0.00282	0.104	ug/l	1x	6H31014	08/31/06 09:32	09/05/06 11:46	
Acenaphthylene	*	ND	0.00262	0.104	*	*	*	*	*	
Anthracene	*	ND	0.00296	0.104	*	*	*	*	*	
Benzo (a) anthracene	*	ND	0.00165	0.0104	*	*	*	*	*	
Benzo (a) pyrene	*	ND	0.00328	0.0104	*	*	*	*	*	
Benzo (b) fluoranthene	*	ND	0.00215	0.0104	*	*	*	*	*	
Benzo (k) fluoranthene	*	ND	0.00194	0.0104	*	*	*	*	*	
Benzo (ghi) perylene	*	ND	0.00308	0.104	*	*	*	*	*	
Chrysene	*	ND	0.00196	0.0104	*	*	*	*	*	
Dibenz (a,h) anthracene	*	ND	0.00260	0.0104	*	*	*	*	*	
Fluoranthene	*	ND	0.00204	0.104	*	*	*	*	*	
Fluorene	*	ND	0.00372	0.104	*	*	*	*	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00256	0.0104	*	*	*	*	*	
1-Methylnaphthalene	*	ND	0.00232	0.104	*	*	*	*	*	
2-Methylnaphthalene	*	ND	0.00238	0.104	*	*	*	*	*	
Naphthalene	*	ND	0.00436	0.104	*	*	*	*	*	
Phenanthrene	*	ND	0.00270	0.104	*	*	*	*	*	
Pyrene	*	ND	0.00254	0.104	*	*	*	*	*	
Surrogate(s): Benzo (a) pyrene-d12			70.5%		20 - 125 %	*				
1-Methylnaphthalene-d10			113%		39 - 125 %	*				

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:59

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0761-01 (SKY-EFF-8/30/06)		Water		Sampled: 08/30/06 09:15						
pH	EPA 150.1	7.65	—		pH Units	1x	6H31032	08/30/06 20:30	08/31/06 13:19	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6H31031	08/31/06 13:11	08/31/06 13:11	
BPH0761-04 (SKY-BKGD-8/30/06)		Water		Sampled: 08/30/06 09:25						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6H31031	08/31/06 13:11	08/31/06 13:11	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:59

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H31012 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/31/06 09:29														
Blank (6H31012-BLK1)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	09/05/06 19:39	
Lube Oil Range Hydrocarbons	*	ND	0.0900	0.500	*	*	--	--	--	--	--	--	*	
Surrogate(s): 2-FBP		Recovery: 66.8%		Limits: 53-125%		*						09/05/06 19:39		
Octacosane		90.4%		68-125%		*						*		
Extracted: 08/31/06 09:29														
Blank (6H31012-BLK2)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	09/05/06 20:08	
Lube Oil Range Hydrocarbons	*	ND	0.0900	0.500	*	*	--	--	--	--	--	--	*	
Surrogate(s): 2-FBP		Recovery: 73.2%		Limits: 53-125%		*						09/05/06 20:08		
Octacosane		89.6%		68-125%		*						*		
Extracted: 08/31/06 09:29														
LCS (6H31012-BS1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.94	0.0400	0.250	mg/l	1x	--	2.00	97.0%	(61-132)	--	--	09/05/06 20:37	
Lube Oil Range Hydrocarbons	*	2.02	0.0900	0.500	*	*	--	*	101%	(60-125)	--	--	*	
Surrogate(s): 2-FBP		Recovery: 86.0%		Limits: 53-125%		*						09/05/06 20:37		
Octacosane		91.6%		68-125%		*						*		
Extracted: 08/31/06 09:29														
LCS Dup (6H31012-BSD1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.93	0.0400	0.250	mg/l	1x	--	2.00	96.5%	(61-132)	0.517% (40)	--	09/05/06 21:07	
Lube Oil Range Hydrocarbons	*	1.98	0.0900	0.500	*	*	--	*	99.0%	(60-125)	2.00%	*	*	
Surrogate(s): 2-FBP		Recovery: 85.2%		Limits: 53-125%		*						09/05/06 21:07		
Octacosane		91.2%		68-125%		*						*		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/11/06 14:59
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6107030 **Water Preparation Method:** EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6107030-BLK1)														
								Extracted: 09/07/06 13:12						
Lead	EPA 200.8	0.000820	0.000140	0.00100	mg/l	1x	-	-	-	-	-	-	09/08/06 14:13	J
Arsenic	"	ND	0.000430	0.00100	"	"	-	-	-	-	-	-	"	
LCS (6107030-BS1)														
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.0719	0.000430	0.00100	mg/l	1x	-	0.0800	89.9%	(85-115)	-	-	09/08/06 14:19	
Lead	"	0.0729	0.000140	0.00100	"	"	-	"	91.1%	"	-	-	"	
Duplicate (6107030-DUP1)														
								QC Source: BPH0381-01						
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.000880	0.000430	0.00100	mg/l	1x	0.000790	-	-	-	10.8%	(20)	09/08/06 14:30	J
Lead	"	0.000750	0.000140	0.00100	"	"	0.000710	-	-	-	5.48%	"	"	J
Matrix Spike (6107030-MS1)														
								QC Source: BPH0381-01						
								Extracted: 09/07/06 13:12						
Arsenic	EPA 200.8	0.0733	0.000430	0.00100	mg/l	1x	0.000790	0.0800	90.6%	(75-125)	-	-	09/08/06 14:25	
Lead	"	0.0722	0.000140	0.00100	"	"	0.000710	"	89.4%	"	-	-	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/11/06 14:59

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H31005

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H31005-BLK1)														
Extracted: 08/31/06 07:59														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	08/31/06 10:32	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Methyl tert-butyl ether	"	ND	0.248	1.00	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	99.0%	Limits: 70-130%		"								08/31/06 10:32
Toluene-d8			104%	75-125%		"								"
4-BFB			101%	75-125%		"								"
LCS (6H31005-BS1)														
Extracted: 08/31/06 07:59														
Benzene	EPA 8260B	19.6	0.114	0.500	ug/l	1x	—	20.0	98.0%	(80-120)	—	—	08/31/06 09:37	
Ethylbenzene	"	20.3	0.125	0.500	"	"	—	"	102%	"	—	—	"	
Methyl tert-butyl ether	"	18.9	0.248	1.00	"	"	—	"	94.5%	"	—	—	"	
Toluene	"	20.7	0.127	0.500	"	"	—	"	104%	"	—	—	"	
Total Xylenes	"	61.6	0.298	3.00	"	"	—	60.0	103%	"	—	—	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	98.0%	Limits: 70-130%		"								08/31/06 09:37
Toluene-d8			102%	75-125%		"								"
4-BFB			101%	75-125%		"								"
LCS Dup (6H31005-BSD1)														
Extracted: 08/31/06 07:59														
Benzene	EPA 8260B	18.6	0.114	0.500	ug/l	1x	—	20.0	93.0%	(80-120)	5.24%	(20)	08/31/06 10:00	
Ethylbenzene	"	19.0	0.125	0.500	"	"	—	"	95.0%	"	6.62%	"	"	
Methyl tert-butyl ether	"	18.2	0.248	1.00	"	"	—	"	91.0%	"	3.77%	"	"	
Toluene	"	19.1	0.127	0.500	"	"	—	"	95.5%	"	8.04%	"	"	
Total Xylenes	"	57.6	0.298	3.00	"	"	—	60.0	96.0%	"	6.71%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	99.0%	Limits: 70-130%		"								08/31/06 10:00
Toluene-d8			100%	75-125%		"								"
4-BFB			104%	75-125%		"								"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:59

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H31014

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H31014-BLK2)														
										Extracted: 08/31/06 09:32				
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	-	-	-	-	-	-	09/05/06 11:13	
Acenaphthylene	"	ND	0.00252	0.100	"	"	-	-	-	-	-	-	"	
Anthracene	"	ND	0.00284	0.100	"	"	-	-	-	-	-	-	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	-	-	-	-	-	-	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	-	-	-	-	-	-	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	-	-	-	-	-	-	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	-	-	-	-	-	-	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	-	-	-	-	-	-	"	
Chrysene	"	ND	0.00188	0.0100	"	"	-	-	-	-	-	-	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	-	-	-	-	-	-	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	-	-	-	-	-	-	"	
Fluorene	"	ND	0.00357	0.100	"	"	-	-	-	-	-	-	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	-	-	-	-	-	-	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	-	-	-	-	-	-	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	-	-	-	-	-	-	"	
Naphthalene	"	ND	0.00419	0.100	"	"	-	-	-	-	-	-	"	
Phenanthrene	"	0.00882	0.00259	0.100	"	"	-	-	-	-	-	-	"	
Pyrene	"	ND	0.00244	0.100	"	"	-	-	-	-	-	-	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 71.8% Limits: 20-125% " 09/05/06 11:13														
1-Methylnaphthalene-d10 106% 39-125% "														

LCS (6H31014-BS2)

										Extracted: 08/31/06 09:32				
Acenaphthene	EPA 8270C-HVI	15.8	0.0271	1.00	ug/l	10x	-	20.0	79.0%	(44-125)	-	-	09/05/06 10:09	
Acenaphthylene	"	17.7	0.0252	1.00	"	"	-	"	88.5%	(51-125)	-	-	"	
Anthracene	"	17.2	0.0284	1.00	"	"	-	"	86.0%	(50-125)	-	-	"	
Benzo (a) anthracene	"	19.1	0.0158	0.100	"	"	-	"	95.5%	"	-	-	"	
Benzo (a) pyrene	"	17.4	0.0315	0.100	"	"	-	"	87.0%	(47-125)	-	-	"	
Benzo (b) fluoranthene	"	19.8	0.0206	0.100	"	"	-	"	99.0%	(50-125)	-	-	"	
Benzo (k) fluoranthene	"	16.3	0.0186	0.100	"	"	-	"	81.5%	(46-125)	-	-	"	
Benzo (ghi) perylene	"	17.7	0.0296	1.00	"	"	-	"	88.5%	(49-125)	-	-	"	
Chrysene	"	18.5	0.0188	0.100	"	"	-	"	92.5%	(53-125)	-	-	"	
Dibenz (a,h) anthracene	"	18.1	0.0250	0.100	"	"	-	"	90.5%	(47-125)	-	-	"	
Fluoranthene	"	18.5	0.0196	1.00	"	"	-	"	92.5%	(55-125)	-	-	"	
Fluorene	"	16.4	0.0357	1.00	"	"	-	"	82.0%	(52-125)	-	-	"	
Indeno (1,2,3-cd) pyrene	"	18.2	0.0246	0.100	"	"	-	"	91.0%	(49-125)	-	-	"	
1-Methylnaphthalene	"	16.0	0.0223	1.00	"	"	-	"	80.0%	(37-125)	-	-	"	
2-Methylnaphthalene	"	13.8	0.0228	1.00	"	"	-	"	69.0%	(40-125)	-	-	"	
Naphthalene	"	15.3	0.0419	1.00	"	"	-	"	76.5%	(42-125)	-	-	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/11/06 14:59
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Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6H31014	Water Preparation Method: EPA 3520C
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6H31014-BS2)														
Extracted: 08/31/06 09:32														
Phenanthrene	EPA 8270C-HVI	19.0	0.0259	1.00	ug/l	10x	—	20.0	95.0%	(47-125)	—	—	09/05/06 10:09	
Pyrene	"	18.6	0.0244	1.00	"	"	—	"	93.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 79.0%		Limits: 20-125%		"						09/05/06 10:09		
1-Methylnaphthalene-d10		67.8%		39-125%		"						"		

LCS Dup (6H31014-BSD2)														
Extracted: 08/31/06 09:32														
Acenaphthene	EPA 8270C-HVI	16.2	0.0271	1.00	ug/l	10x	—	20.0	81.0%	(44-125)	2.50%	(35)	09/05/06 10:41	
Acenaphthylene	"	18.0	0.0252	1.00	"	"	—	"	90.0%	(51-125)	1.68%	"	"	
Anthracene	"	17.9	0.0284	1.00	"	"	—	"	89.5%	(50-125)	3.99%	"	"	
Benzo (a) anthracene	"	19.6	0.0158	0.100	"	"	—	"	98.0%	"	2.58%	"	"	
Benzo (a) pyrene	"	17.9	0.0315	0.100	"	"	—	"	89.5%	(47-125)	2.83%	"	"	
Benzo (b) fluoranthene	"	17.9	0.0206	0.100	"	"	—	"	89.5%	(50-125)	10.1%	"	"	
Benzo (k) fluoranthene	"	19.4	0.0186	0.100	"	"	—	"	97.0%	(46-125)	17.4%	"	"	
Benzo (ghi) perylene	"	18.5	0.0296	1.00	"	"	—	"	92.5%	(49-125)	4.42%	"	"	
Chrysene	"	19.4	0.0188	0.100	"	"	—	"	97.0%	(53-125)	4.75%	"	"	
Dibenz (a,h) anthracene	"	18.7	0.0250	0.100	"	"	—	"	93.5%	(47-125)	3.26%	"	"	
Fluoranthene	"	19.1	0.0196	1.00	"	"	—	"	95.5%	(55-125)	3.19%	"	"	
Fluorene	"	16.6	0.0357	1.00	"	"	—	"	83.0%	(52-125)	1.21%	"	"	
Indeno (1,2,3-cd) pyrene	"	18.7	0.0246	0.100	"	"	—	"	93.5%	(49-125)	2.71%	"	"	
1-Methylnaphthalene	"	15.8	0.0223	1.00	"	"	—	"	79.0%	(37-125)	1.26%	"	"	
2-Methylnaphthalene	"	13.1	0.0228	1.00	"	"	—	"	65.5%	(40-125)	5.20%	"	"	
Naphthalene	"	15.7	0.0419	1.00	"	"	—	"	78.5%	(42-125)	2.58%	"	"	
Phenanthrene	"	18.2	0.0259	1.00	"	"	—	"	91.0%	(47-125)	4.30%	"	"	
Pyrene	"	18.4	0.0244	1.00	"	"	—	"	92.0%	"	1.08%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 82.0%		Limits: 20-125%		"						09/05/06 10:41		
1-Methylnaphthalene-d10		64.9%		39-125%		"						"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/11/06 14:59

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H31031

Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H31031-BLK1)										Extracted: 08/31/06 13:11				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	08/31/06 13:11	
LCS (6H31031-BS1)										Extracted: 08/31/06 13:11				
Turbidity	EPA 180.1	14.6	—	1.00	NTU	1x	—	14.5	101%	(90-110)	—	—	08/31/06 13:11	
Duplicate (6H31031-DUP1)										QC Source: BPH0750-01				
										Extracted: 08/31/06 13:11				
Turbidity	EPA 180.1	67.0	—	2.00	NTU	2x	66.0	—	—	—	1.50%	(20)	08/31/06 13:11	

QC Batch: 6H31032

Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6H31032-DUP1)										QC Source: BPH0753-01				
										Extracted: 08/30/06 20:30				
pH	EPA 150.1	9.10	—		pH Units	1x	9.10	—	—	—	0.00%	(10)	08/31/06 13:19	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
09/11/06 14:59

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 8/14/2006
CCIL JOB #: 0608047
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016 SKYKOMISH
CLIENT SAMPLE ID: 8/4/2006 13:30 DISCHARGE 80406
CCIL SAMPLE #: -04

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	8/8/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	8/8/2006	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 8/14/2006
CCIL JOB #: 0608047
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016 SKYKOMISH
CLIENT SAMPLE ID: 8/5/2006 9:00 DISCHARGE 80506
CCIL SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	8/8/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	8/8/2006	DLC

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.
** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
3315 15TH STREET
EVERETT, WA 98201

DATE: 8/14/2006
CCIL JOB #: 0608047
DATE RECEIVED: 8/7/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016 SKYKOMISH
CLIENT SAMPLE ID: 8/5/2006 14:30 DISCHARGE 80506 PM
CCIL SAMPLE #: -09

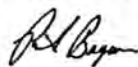
DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	8/8/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	8/8/2006	DLC

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

**UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:





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CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/1/2006
CCIL JOB #: 0608118
DATE RECEIVED: 8/24/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016
CLIENT SAMPLE ID: 8/23/2006 17:00 DISCHARGE 82306
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	ND(<130)	UG/L	8/24/2006	DLC
TPH-Oil Range	NWTPH-DX	ND(<250)	UG/L	8/24/2006	DLC
Benzene	EPA-8260	ND(<1)	UG/L	8/24/2006	CCN
Toluene	EPA-8260	ND(<1)	UG/L	8/24/2006	CCN
Ethylbenzene	EPA-8260	ND(<1)	UG/L	8/24/2006	CCN
o-Xylene	EPA-8260	ND(<1)	UG/L	8/24/2006	CCN
m,p-Xylene	EPA-8260	ND(<2)	UG/L	8/24/2006	CCN
Naphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Phenanthrene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[A]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL

*ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

**UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

Page 1

8620 Holly Drive Suite 100 Everett, WA 98208 425 356-2600 FAX 425 356-2626 Seattle 206 292-9059



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CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/1/2006
CCIL JOB #: 0608118
DATE RECEIVED: 8/24/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0608118-01	NWTPH-DX	C25	112
0608118-01	EPA-8260	Toluene-d8	96
0608118-01	EPA-8270 SIM	Terphenyl-d14	101

APPROVED BY:

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/6/2006
CCIL JOB #: 0608142
DATE RECEIVED: 8/30/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016
CLIENT SAMPLE ID: 8/29/2006 17:00 DISCHARGE-82906
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX W/CLEANUP	ND(<130)	UG/L	8/31/2006	DLC
TPH-Oil Range	NWTPH-DX W/CLEANUP	ND(<250)	UG/L	8/31/2006	DLC
Dichlorodifluoromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Chloromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Vinyl Chloride	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Bromomethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Chloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Trichlorofluoromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Acetone	EPA-8260	ND(<25)	UG/L	9/1/2006	CCN
1,1-Dichloroethene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Methylene Chloride	EPA-8260	ND(<5)	UG/L	9/1/2006	CCN
Acrylonitrile	EPA-8260	ND(<10)	UG/L	9/1/2006	CCN
Methyl T-Butyl Ether	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Trans-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1-Dichloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
2-Butanone	EPA-8260	ND(<10)	UG/L	9/1/2006	CCN
Cis-1,2-Dichloroethene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
2,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Bromochloromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Chloroform	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1,1-Trichloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1-Dichloropropene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Carbon Tetrachloride	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2-Dichloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Benzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Trichloroethene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2-Dichloropropane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Dibromomethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Bromodichloromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Trans-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
4-Methyl-2-Pentanone	EPA-8260	ND(<10)	UG/L	9/1/2006	CCN
Toluene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Cis-1,3-Dichloropropene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1,2-Trichloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN

Page 1

8620 Holly Drive Suite 100 Everett, WA 98208 425 356-2600 FAX 425 356-2626 Seattle 206 292-9059

CLIENT INFORMATION

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/6/2006
CCIL JOB #: 0608142
DATE RECEIVED: 8/30/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016
CLIENT SAMPLE ID: 8/29/2006 17:00 DISCHARGE-82906
CCIL SAMPLE #: -01

ANALYSIS RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	ND(<10)	UG/L	9/1/2006	CCN
1,3-Dichloropropane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Tetrachloroethylene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Dibromochloromethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2-Dibromoethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Chlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Ethylbenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
M+P Xylene	EPA-8260	ND(<4)	UG/L	9/1/2006	CCN
Styrene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
O-Xylene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Bromoform	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Isopropylbenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2,3-Trichloropropane	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Bromobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
N-Propyl Benzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
2-Chlorotoluene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,3,5-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
4-Chlorotoluene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
T-Butyl Benzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2,4-Trimethylbenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
S-Butyl Benzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
P-Isopropyltoluene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,3 Dichlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,4-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
N-Butylbenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2-Dichlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	ND(<10)	UG/L	9/1/2006	CCN
1,2,4-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Hexachlorobutadiene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Naphthalene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
1,2,3-Trichlorobenzene	EPA-8260	ND(<2)	UG/L	9/1/2006	CCN
Naphthalene	EPA-8270 SIM	0.02	UG/L	8/30/2006	RAL

CERTIFICATE OF ANALYSIS

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/6/2006
CCIL JOB #: 0608142
DATE RECEIVED: 8/30/2006
WDOE ACCREDITATION #: C142

CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016
CLIENT SAMPLE ID: 8/29/2006 17:00 DISCHARGE-82906
CCIL SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ANALYSIS DATE	ANALYSIS BY
1-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
2-Methylnaphthalene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Acenaphthylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Acenaphthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Fluorene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Phenanthrene	EPA-8270 SIM	0.02	UG/L	8/30/2006	RAL
Anthracene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Fluoranthene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Pyrene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL
Benzo[A]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Chrysene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[B]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[K]Fluoranthene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[A]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Dibenz[A,H]Anthracene	EPA-8270 SIM	ND(<0.01)	UG/L	8/30/2006	RAL
Benzo[G,H,I]Perylene	EPA-8270 SIM	ND(<0.02)	UG/L	8/30/2006	RAL

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES.

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

APPROVED BY:

Carl Hsu

QUALITY CONTROL RESULTS

CLIENT: WILDER CONSTRUCTION CO.
1525 EAST MARINE VIEW DRIVE
EVERETT, WA 98201

DATE: 9/6/2006
CCIL JOB #: 0608142
DATE RECEIVED: 8/30/2006
WDOE ACCREDITATION #: C142

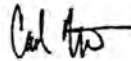
CLIENT CONTACT: HEATHER CROCKFORD
CLIENT PROJECT ID: E6016

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	METHOD	SUR ID	% RECV
0608142-01	NWTPH-DX W/CLEANUP	C25	96
0608142-01	EPA-8260	1,2-Dichloroethane-d4	106
0608142-01	EPA-8260	Toluene-d8	99
0608142-01	EPA-8260	4-Bromofluorobenzene	100
0608142-01	EPA-8270 SIM	Terphenyl-d14	104

APPROVED BY:





206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

Letter of Transmittal

TO: Chris Smith, Washington Dept of Ecology DATE: October 13, 2006
RE: BNSF Skykomish Cleanup Site Discharge Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	Description
1	October 12, 2006	BNSF Skykomish Cleanup Site (WA-0032123) Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review & Comment ☐ Other: _____

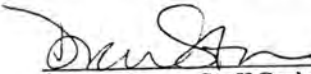
Remarks:

Attached is the Discharge Monitoring Report for the September 2006 monitoring period.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.


Diann Strom, Staff Geologist

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology
Bruce Sheppard, BNSF
Halah Voges, RETEC
Dennis Metz, RETEC
RETEC file

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123
PERMIT NUMBER

001
DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2006	09	01	2006	09	30

FROM TO

NOTE: Read instructions before
completing this form.

Discharge Location

Lat 47° 42' 37" N

Long 121° 21' 44" W

NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	434	GPM	*****	*****	*****	0	Cont.	Meter
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	338.5	GPM	*****	*****	*****	0	Cont.	Meter
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****	ND	0	07/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.1		07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****	No	0	07/07	Visual
	Permit Requirement	*****	*****		*****	*****	REPORT		07/07	VISUAL
pH	Sample Measurement	*****	*****	***	6.88	*****	7.59	0	01/07	Grab
	Permit Requirement	*****	*****		6.5	*****	8.5		01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***	9.55	*****	*****	0	01/07	Grab
	Permit Requirement	*****	*****		8	*****	*****		01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****	ND	NTU	*****	*****	*****	0	01/07	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>Bruce Sheppard</u> <u>Manager Environmental Remediation</u> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE <u>(206) 625-6035</u> AREA NUMBER CODE	DATE <u>2006/10/12</u> YEAR MO DAY
---	---	---	--	--

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

ND = Not detected above method reporting limit
Attachment A: Chitosan Acetate Explanation
Attachment B: Laboratory Analytical Reports

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

6374

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2006	09	01		2006	09	30

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****	4.80	NTU	*****	*****	*****	***	0	01/07	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****	4.80	NTU	*****	*****	*****	***	0	01/07	Grab
	Permit Requirement	*****	5		*****	*****	*****			01/07	GRAB
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	1.2			01/07	GRAB
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	100			01/07	GRAB
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****	901	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	REPORT			01/07	GRAB
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****	115	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	208			01/07	GRAB
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	0.28	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	12.5			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Brute Sheppard
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL
ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION
IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT
QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE
INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR
PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY
RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION
SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE,
ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE
SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR
KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT

TELEPHONE

DATE

206 125-6635
AREA NUMBER
CODE

2006 10 12
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

ND = Not detected above method reporting limit (MRL)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE MONITORING REPORT(DMR)

WA-0032123
PERMIT NUMBER
001
DISCHARGE NUMBER

MONITORING PERIOD
FROM 2006 09 01 TO 2006 09 30

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	2.02	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	360			01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	2400			01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	640			01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	160			01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	480			01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

B. Sheppard
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER CODE

DATE

2006 10 12
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TR - MEANS TOTAL RECOVERABLE

* ND = No + detected above method reporting limit (MRL)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123 001
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
2006 09 01 TO 2006 09 30

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
INDENO (1, 2, 3-cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	643			01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	01/07	Grab
	Permit Requirement	*****	*****		*****	*****	90.2			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA NUMBER CODE

DATE

2006 10 12
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ND = Not detected above method reporting limit (MRL)

Attachment A

Chitosan Acetate Explanation

Chitosan acetate was not tested for on September 15, 18, 19, and 22. September 15th chitosan was not tested for because the system was down for maintenance (carbon change-out) prior to sampling. September 18th, no chitosan was used and the system was shut-down frequently to remove oil. September 19th there was no discharge. Chitosan was inadvertently not tested for on the 22nd.

Attachment B
Laboratory Analytical Results

September 21, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 09/06/06 15:20.
The following list is a summary of the Work Orders contained in this report, generated on 09/21/06 14:29.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPI0160	BNSF-Skykomish Levee Water	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/21/06 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-NPDES-EFF-090606	BPI0160-01	Water	09/06/06 10:15	09/06/06 15:20
SKY-NPDES-INF-090606	BPI0160-02	Water	09/06/06 10:20	09/06/06 15:20
SKY-NPDES-TB090606	BPI0160-03	Water	09/06/06 12:00	09/06/06 15:20
SKY-NPDES-BKGD-090606	BPI0160-04	Water	09/06/06 10:35	09/06/06 15:20
SKY-NPDES-MID-090606	BPI0160-05	Water	09/06/06 14:00	09/06/06 15:20

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/21/06 14:29

Analytical Case Narrative TestAmerica - Seattle, WA

BPI0160

DESCRIPTION OF CASE

Four water samples and one trip blank were submitted for analysis of: Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up), Total Metals by EPA 6000/7000 Series Methods, Volatile Organic Compounds by EPA Method 8260B, Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection and Conventional Chemistry Parameters by APHA/EPA Methods.

Per the client's specific request, the sample results including the NWTPH-Dx results were reported down to the MDL with the exception of the conventional chemistry parameters.

SAMPLE RECEIPT

The samples were received at 1520 on September 6th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 11.4 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): 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 the report.

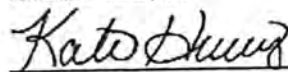
Total Metals per EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/21/06 14:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0160-01 (SKY-NPDES-EFF-090606)		Water		Sampled: 09/06/06 10:15						
Diesel Range Hydrocarbons	NWTPH-Dx	0.115	0.0377	0.236	mg/l	1x	6107054	09/08/06 09:39	09/12/06 20:32	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		86.4%		53 - 125 %		"		"		
Octacosane		85.2%		68 - 125 %		"		"		
BPI0160-02 (SKY-NPDES-INF-090606)		Water		Sampled: 09/06/06 10:20						
Diesel Range Hydrocarbons	NWTPH-Dx	0.791	0.0388	0.243	mg/l	1x	6107054	09/08/06 09:39	09/12/06 21:01	D-09
Lube Oil Range Hydrocarbons	"	0.110	0.0874	0.485	"	"	"	"	"	J
Surrogate(s): 2-FBP		74.9%		53 - 125 %		"		"		
Octacosane		79.4%		68 - 125 %		"		"		
BPI0160-05 (SKY-NPDES-MID-090606)		Water		Sampled: 09/06/06 14:00						
Diesel Range Hydrocarbons	NWTPH-Dx	0.484	0.0392	0.245	mg/l	1x	6107054	09/08/06 09:39	09/12/06 22:59	D-09
Lube Oil Range Hydrocarbons	"	ND	0.0882	0.490	"	"	"	"	"	
Surrogate(s): 2-FBP		81.2%		53 - 125 %		"		"		
Octacosane		79.6%		68 - 125 %		"		"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/21/06 14:29
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Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0160-01 (SKY-NPDES-EFF-090606)		Water				Sampled: 09/06/06 10:15				
Arsenic	EPA 200.8	0.00160	0.000430	0.00100	mg/l	1x	6111029	09/11/06 14:33	09/15/06 04:26	
Lead	*	ND	0.000140	0.00100	*	*	*	*	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/21/06 14:29

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0160-01 (SKY-NPDES-EFF-090606)		Water		Sampled: 09/06/06 10:15						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6108015	09/08/06 08:03	09/08/06 13:21	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			95.5%		70 - 130 %	"				"
Toluene-d8			108%		75 - 125 %	"				"
4-BFB			101%		75 - 125 %	"				"
BPI0160-03 (SKY-NPDES-TB090606)		Water		Sampled: 09/06/06 12:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6108015	09/08/06 08:03	09/08/06 12:52	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			97.0%		70 - 130 %	"				"
Toluene-d8			109%		75 - 125 %	"				"
4-BFB			101%		75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/21/06 14:29

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BP10160-01 (SKY-NPDES-EFF-090606)			Water		Sampled: 09/06/06 10:15					
Acenaphthene	EPA 8270C-HV1	ND	0.00263	0.0971	ug/l	1x	6107018	09/07/06 09:42	09/20/06 20:00	
Acenaphthylene	"	ND	0.00245	0.0971	"	"	"	"	"	
Anthracene	"	ND	0.00276	0.0971	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00153	0.00971	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00306	0.00971	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00200	0.00971	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00181	0.00971	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00287	0.0971	"	"	"	"	"	
Chrysene	"	ND	0.00183	0.00971	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00243	0.00971	"	"	"	"	"	
Fluoranthene	"	ND	0.00190	0.0971	"	"	"	"	"	
Fluorene	"	ND	0.00347	0.0971	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00239	0.00971	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00217	0.0971	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00221	0.0971	"	"	"	"	"	
Naphthalene	"	ND	0.00407	0.0971	"	"	"	"	"	
Phenanthrene	"	ND	0.00251	0.0971	"	"	"	"	"	
Pyrene	"	ND	0.00237	0.0971	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			82.2%	20 - 125 %	"	"	"	"	"	
1-Methylnaphthalene-d10			104%	39 - 125 %	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/21/06 14:29

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0160-01 (SKY-NPDES-EFF-090606)		Water		Sampled: 09/06/06 10:15						
pH	EPA 150.1	7.27	—		pH Units	1x	6107057	09/06/06 19:50	09/06/06 19:50	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6107051	09/07/06 18:32	09/07/06 19:22	
BPI0160-04 (SKY-NPDES-BKGD-090606)		Water		Sampled: 09/06/06 10:35						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6107051	09/07/06 18:32	09/07/06 19:22	

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Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/21/06 14:29
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6107054	Water Preparation Method: EPA 3520C
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/08/06 09:39														
Blank (6107054-BLK1)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	-	-	-	-	-	-	09/12/06 06:35	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	-	-	-	-	-	-	"	
Surrogate(s): 2-FBP		Recovery: 86.0%		Limits: 53-125%	"								09/12/06 06:35	
Octacosane		80.8%		68-125%	"								"	
Extracted: 09/08/06 09:39														
LCS (6107054-BS1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.70	0.0400	0.250	mg/l	1x	-	2.00	85.0%	(61-132)	-	-	09/12/06 07:04	
Surrogate(s): 2-FBP		Recovery: 86.8%		Limits: 53-125%	"								09/12/06 07:04	
Octacosane		85.2%		68-125%	"								"	
Extracted: 09/08/06 09:39														
LCS Dup (6107054-BSD1)														
Diesel Range Hydrocarbons	NWTPH-Dx	1.70	0.0400	0.250	mg/l	1x	-	2.00	85.0%	(61-132)	0.00% (40)		09/12/06 09:42	
Surrogate(s): 2-FBP		Recovery: 88.0%		Limits: 53-125%	"								09/12/06 09:42	
Octacosane		82.8%		68-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 09/21/06 14:29

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I11029 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I11029-BLK1)														
								Extracted: 09/11/06 14:33						
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	-	-	-	-	-	-	09/15/06 03:00	
Lead	"	0.000250	0.000140	0.00100	"	"	-	-	-	-	-	-	"	J
LCS (6I11029-BS1)														
								Extracted: 09/11/06 14:33						
Arsenic	EPA 200.8	0.0716	0.000430	0.00100	mg/l	1x	-	0.0800	89.5%	(85-115)	-	-	09/15/06 03:06	
Lead	"	0.0736	0.000140	0.00100	"	"	-	"	92.0%	"	-	-	"	
Duplicate (6I11029-DUP1)														
								QC Source: BP10091-01						
								Extracted: 09/11/06 14:33						
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	ND	-	-	-	NR (20)	-	09/15/06 03:34	
Lead	"	0.000960	0.000140	0.00100	"	"	0.00102	-	-	-	6.06%	"	"	J
Matrix Spike (6I11029-MS1)														
								QC Source: BP10091-01						
								Extracted: 09/11/06 14:33						
Lead	EPA 200.8	0.0742	0.000140	0.00100	mg/l	1x	0.00102	0.0800	91.5%	(75-125)	-	-	09/15/06 03:11	
Arsenic	"	0.0717	0.000430	0.00100	"	"	ND	"	89.6%	"	-	-	"	
Matrix Spike (6I11029-MS2)														
								QC Source: BP10091-02						
								Extracted: 09/11/06 14:33						
Arsenic	EPA 200.8	0.0702	0.000430	0.00100	mg/l	1x	ND	0.0800	87.8%	(75-125)	-	-	09/15/06 03:17	
Lead	"	0.0726	0.000140	0.00100	"	"	0.000500	"	90.1%	"	-	-	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 09/21/06 14:29
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6108015 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/08/06 08:03														
Blank (6108015-BLK1)														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	09/08/06 12:24	
Ethylbenzene	"	ND	0.125	0.500	"	"	-	-	-	-	-	-	"	
Toluene	"	ND	0.127	0.500	"	"	-	-	-	-	-	-	"	
Total Xylenes	"	ND	0.298	3.00	"	"	-	-	-	-	-	-	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 97.0% Limits: 70-130% 09/08/06 12:24														
Toluene-d8 110% 75-125% "														
4-BFB 102% 75-125% "														
Extracted: 09/08/06 08:03														
LCS (6108015-BS1)														
Benzene	EPA 8260B	19.3	0.114	0.500	ug/l	1x	-	20.0	96.5%	(80-120)	-	-	09/08/06 10:29	
Ethylbenzene	"	21.2	0.125	0.500	"	"	-	"	106%	(75-125)	-	-	"	
Toluene	"	21.8	0.127	0.500	"	"	-	"	109%	"	-	-	"	
Total Xylenes	"	64.1	0.298	3.00	"	"	-	60.0	107%	"	-	-	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 94.5% Limits: 70-130% 09/08/06 10:29														
Toluene-d8 108% 75-125% "														
4-BFB 100% 75-125% "														
Extracted: 09/08/06 08:03														
LCS Dup (6108015-BS1)														
Benzene	EPA 8260B	19.4	0.114	0.500	ug/l	1x	-	20.0	97.0%	(80-120)	0.517% (20)	-	09/08/06 10:58	
Ethylbenzene	"	21.2	0.125	0.500	"	"	-	"	106%	(75-125)	0.00%	"	"	
Toluene	"	21.5	0.127	0.500	"	"	-	"	108%	"	1.39%	"	"	
Total Xylenes	"	63.5	0.298	3.00	"	"	-	60.0	106%	"	0.940%	"	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 96.0% Limits: 70-130% 09/08/06 10:58														
Toluene-d8 108% 75-125% "														
4-BFB 99.5% 75-125% "														
Extracted: 09/08/06 08:03														
Matrix Spike (6108015-MS1)														
QC Source: BP10160-01														
Benzene	EPA 8260B	20.4	0.114	0.500	ug/l	1x	ND	20.0	102%	(80-124)	-	-	09/08/06 11:26	
Ethylbenzene	"	22.4	0.125	0.500	"	"	ND	"	112%	(62-151)	-	-	"	
Toluene	"	23.0	0.127	0.500	"	"	ND	"	115%	(75-125)	-	-	"	
Total Xylenes	"	67.3	0.298	3.00	"	"	ND	60.0	112%	"	-	-	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 95.0% Limits: 70-130% 09/08/06 11:26														
Toluene-d8 110% 75-125% "														
4-BFB 101% 75-125% "														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

09/21/06 14:29

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6108015

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (6108015-MSD1)			QC Source: BP10160-01			Extracted: 09/08/06 08:03								
Benzene	EPA 8260B	18.9	0.114	0.500	ug/l	1x	ND	20.0	94.5%	(80-124)	7.63%	(30)	09/08/06 11:55	
Ethylbenzene	*	20.7	0.125	0.500	*	*	ND	*	104%	(62-151)	7.89%	*	*	
Toluene	*	21.1	0.127	0.500	*	*	ND	*	106%	(75-125)	8.62%	*	*	
Total Xylenes	*	62.2	0.298	3.00	*	*	ND	60.0	104%	*	7.88%	*	*	
Surrogate(s): 1,2-DCA-d4		Recovery:	96.0%	Limits: 70-130%		*								
Toluene-d8		109%	75-125%		*									09/08/06 11:55
4-BFB		101%	75-125%		*									*

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
09/21/06 14:29

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6107018

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6107018-BLK2)														
Extracted: 09/07/06 09:42														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	09/20/06 14:49	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--		
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--		
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--		
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--		
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--		
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--		
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--		
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--		
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--		
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--		
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--		
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--		
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--		
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--		
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--		
Phenanthrene	"	ND	0.00259	0.100	"	"	--	--	--	--	--	--		
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--		
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 73.5% Limits: 20-125% 09/20/06 14:49														
1-Methylnaphthalene-d10 96.7% 39-125%														

LCS (6107018-BS2)

Extracted: 09/07/06 09:42														
Acenaphthene	EPA 8270C-HVI	16.0	0.0271	1.00	ug/l	10x	--	20.0	80.0%	(44-125)	--	--	09/20/06 11:56	
Acenaphthylene	"	17.4	0.0252	1.00	"	"	--	"	87.0%	(51-125)	--	--		
Anthracene	"	18.7	0.0284	1.00	"	"	--	"	93.5%	(50-125)	--	--		
Benzo (a) anthracene	"	17.6	0.0158	0.100	"	"	--	"	88.0%	"	--	--		
Benzo (a) pyrene	"	17.5	0.0315	0.100	"	"	--	"	87.5%	(47-125)	--	--		
Benzo (b) fluoranthene	"	15.6	0.0206	0.100	"	"	--	"	78.0%	(50-125)	--	--		
Benzo (k) fluoranthene	"	14.4	0.0186	0.100	"	"	--	"	72.0%	(46-125)	--	--		
Benzo (ghi) perylene	"	17.2	0.0296	1.00	"	"	--	"	86.0%	(49-125)	--	--		
Chrysene	"	18.0	0.0188	0.100	"	"	--	"	90.0%	(53-125)	--	--		
Dibenz (a,h) anthracene	"	17.8	0.0250	0.100	"	"	--	"	89.0%	(47-125)	--	--		
Fluoranthene	"	18.8	0.0196	1.00	"	"	--	"	94.0%	(55-125)	--	--		
Fluorene	"	17.4	0.0357	1.00	"	"	--	"	87.0%	(52-125)	--	--		
Indeno (1,2,3-cd) pyrene	"	17.6	0.0246	0.100	"	"	--	"	88.0%	(49-125)	--	--		
1-Methylnaphthalene	"	15.3	0.0223	1.00	"	"	--	"	76.5%	(37-125)	--	--		
2-Methylnaphthalene	"	15.7	0.0228	1.00	"	"	--	"	78.5%	(40-125)	--	--		
Naphthalene	"	14.7	0.0419	1.00	"	"	--	"	73.5%	(42-125)	--	--		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/21/06 14:29

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6107018

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6107018-BS2)										Extracted: 09/07/06 09:42				
Phenanthrene	EPA 8270C-HVI	17.7	0.0259	1.00	ug/l	10x	—	20.0	88.5%	(47-125)	—	—	09/20/06 11:56	
Pyrene	"	18.4	0.0244	1.00	"	"	—	"	92.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 77.4% Limits: 20-125% * 09/20/06 11:56														
1-Methylnaphthalene-d10 72.0% 39-125% *														
LCS Dup (6107018-BSD2)										Extracted: 09/07/06 09:42				
Acenaphthene	EPA 8270C-HVI	15.9	0.0271	1.00	ug/l	10x	—	20.0	79.5%	(44-125)	0.627% (35)	—	09/20/06 12:31	
Acenaphthylene	"	17.4	0.0252	1.00	"	"	—	"	87.0%	(51-125)	0.00%	"	"	
Anthracene	"	18.1	0.0284	1.00	"	"	—	"	90.5%	(50-125)	3.26%	"	"	
Benzo (a) anthracene	"	17.7	0.0158	0.100	"	"	—	"	88.5%	"	0.567%	"	"	
Benzo (a) pyrene	"	18.0	0.0315	0.100	"	"	—	"	90.0%	(47-125)	2.82%	"	"	
Benzo (b) fluoranthene	"	16.0	0.0206	0.100	"	"	—	"	80.0%	(50-125)	2.53%	"	"	
Benzo (k) fluoranthene	"	18.6	0.0186	0.100	"	"	—	"	93.0%	(46-125)	25.5%	"	"	
Benzo (ghi) perylene	"	17.5	0.0296	1.00	"	"	—	"	87.5%	(49-125)	1.73%	"	"	
Chrysene	"	18.3	0.0188	0.100	"	"	—	"	91.5%	(53-125)	1.65%	"	"	
Dibenz (a,h) anthracene	"	17.9	0.0250	0.100	"	"	—	"	89.5%	(47-125)	0.560%	"	"	
Fluoranthene	"	18.8	0.0196	1.00	"	"	—	"	94.0%	(55-125)	0.00%	"	"	
Fluorene	"	16.6	0.0357	1.00	"	"	—	"	83.0%	(52-125)	4.71%	"	"	
Indeno (1,2,3-cd) pyrene	"	18.0	0.0246	0.100	"	"	—	"	90.0%	(49-125)	2.25%	"	"	
1-Methylnaphthalene	"	15.4	0.0223	1.00	"	"	—	"	77.0%	(37-125)	0.651%	"	"	
2-Methylnaphthalene	"	16.0	0.0228	1.00	"	"	—	"	80.0%	(40-125)	1.89%	"	"	
Naphthalene	"	15.4	0.0419	1.00	"	"	—	"	77.0%	(42-125)	4.65%	"	"	
Phenanthrene	"	17.0	0.0259	1.00	"	"	—	"	85.0%	(47-125)	4.03%	"	"	
Pyrene	"	18.4	0.0244	1.00	"	"	—	"	92.0%	"	0.00%	"	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 80.3% Limits: 20-125% * 09/20/06 12:31														
1-Methylnaphthalene-d10 71.7% 39-125% *														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 09/21/06 14:29
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I07051 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I07051-BLK1)														
Extracted: 09/07/06 18:32														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	09/07/06 19:22	
LCS (6I07051-BS1)														
Extracted: 09/07/06 18:32														
Turbidity	EPA 180.1	14.5	—	1.00	NTU	1x	—	14.3	101%	(90-110)	—	—	09/07/06 19:22	
Duplicate (6I07051-DUP1)														
QC Source: BP10125-01 Extracted: 09/07/06 18:32														
Turbidity	EPA 180.1	20.0	—	1.00	NTU	1x	21.0	—	—	—	4.88%	(20)	09/07/06 19:22	

QC Batch: 6I07057 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6I07057-DUP1)														
QC Source: BP10127-01 Extracted: 09/06/06 19:50														
pH	EPA 150.1	6.87	—		pH Units	1x	6.88	—	—	—	0.145%	(10)	09/06/06 19:50	
Duplicate (6I07057-DUP2)														
QC Source: BP10126-01 Extracted: 09/06/06 19:50														
pH	EPA 150.1	6.65	—		pH Units	1x	6.66	—	—	—	0.150%	(10)	09/06/06 19:50	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

09/21/06 14:29

Notes and Definitions

Report Specific Notes:

- D-09 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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TestAmerica

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First 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
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BP10100**

CLIENT: BNSF Railway Company		INVOICE TO: BNSF RAILWAY		TURNAROUND REQUEST							
REPORT TO: Steve Howard - RETEC		P.O. NUMBER: TT0100-606		☒ Organic & Inorganic Analysis ☐ Preservation Hydrocarbon Analysis							
ADDRESS: 1011 SW Klickitat Way, SR207 Seattle WA 98134		PRESERVATIVE		☒ 7 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1							
PHONE: 206-624-9349 FAX: 206-624-2839		REQUESTED ANALYSES		☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1							
PROJECT NAME: Skykosh NPDES		MATRIX (W, S, O)		☐ OTHER Specify:							
PROJECT NUMBER: BNSD-19390-220		# OF CONT.		* Turnaround Request less than standard may incur Rush Charges.							
SAMPLED BY:		LOCATION / COMMENTS		TA WO ID							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NUTRIENT-X	PAH	BTX	Turbidity	pH	AS, PL				
SKY-NPDES-EFF-090606	7/6/06 1015	X	X	X	X	X	X			W	2
SKY-NPDES-INF-090606	7/6/06 1020	X								W	9
SKY-NPDES-TB-090606	7/6/06 1035			X						W	1
SKY-NPDES-BKGD-090606	7/6/06 1035				X					W	1
SKY-NPDES-MIO-090606	7/6/06 1400	X								W	2
RLS are as requested in e-mail											
RELEASED BY: AARON HUNTINGTON FIRM: RETEC DATE: 09/06/06 TIME: 1401 RECEIVED BY: Cathy Grumble FIRM: TH DATE: 9/6/06 TIME: 15:20											
ADDITIONAL REMARKS:											

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
 Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

TEMP: **11.4°** PAGE: **1** OF: **1**

October 04, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 09/13/06 15:20.
The following list is a summary of the Work Orders contained in this report, generated on 10/04/06 16:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPI0331	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/04/06 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-091306	BPI0331-01	Water	09/13/06 09:55	09/13/06 15:20
SKY-INF-091306	BPI0331-02	Water	09/13/06 09:45	09/13/06 15:20
SKY-TB-091306	BPI0331-03	Water	09/13/06 09:00	09/13/06 15:20
SKY-BKGD-091306	BPI0331-04	Water	09/13/06 10:05	09/13/06 15:20
SKY-MID-091306	BPI0331-05	Water	09/13/06 09:42	09/13/06 15:20

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/04/06 16:58
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0331-01 (SKY-EFF-091306)		Water				Sampled: 09/13/06 09:55				
Diesel Range Hydrocarbons	NWTPH-Dx	0.0413	0.0388	0.243	mg/l	1x	6115051	09/15/06 16:35	09/21/06 08:10	J
Lube Oil Range Hydrocarbons	"	ND	0.0874	0.485	"	"	"	"	"	
Surrogate(s): 2-FBP			90.5%		53 - 125 %	"			"	
Octacosane			94.2%		68 - 125 %	"			"	
BPI0331-02 (SKY-INF-091306)		Water				Sampled: 09/13/06 09:45				
Diesel Range Hydrocarbons	NWTPH-Dx	0.237	0.0377	0.236	mg/l	1x	6115051	09/15/06 16:35	09/21/06 09:53	D-09
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			84.7%		53 - 125 %	"			"	
Octacosane			94.1%		68 - 125 %	"			"	
BPI0331-05 (SKY-MID-091306)		Water				Sampled: 09/13/06 09:42				
Diesel Range Hydrocarbons	NWTPH-Dx	0.171	0.0392	0.245	mg/l	1x	6115051	09/15/06 16:35	09/21/06 10:23	J
Lube Oil Range Hydrocarbons	"	ND	0.0882	0.490	"	"	"	"	"	
Surrogate(s): 2-FBP			76.7%		53 - 125 %	"			"	
Octacosane			91.4%		68 - 125 %	"			"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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Report Created:
10/04/06 16:58

Page 4 of 14

The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/04/06 16:58

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0331-01 (SKY-EFF-091306)		Water		Sampled: 09/13/06 09:55						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6114063	09/14/06 20:05	09/15/06 06:48	
Ethylbenzene	*	ND	0.125	0.500	"	"	"	"	"	
Toluene	*	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	*	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			97.5%	70 - 130 %	"					
Toluene-d8			100%	75 - 125 %	"					
4-BFB			102%	75 - 125 %	"					
BPI0331-03 (SKY-TB-091306)		Water		Sampled: 09/13/06 09:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6114063	09/14/06 20:05	09/15/06 07:18	
Ethylbenzene	*	ND	0.125	0.500	"	"	"	"	"	
Toluene	*	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	*	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			98.5%	70 - 130 %	"					
Toluene-d8			101%	75 - 125 %	"					
4-BFB			100%	75 - 125 %	"					

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/04/06 16:58

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0331-01 (SKY-EFF-091306)		Water		Sampled: 09/13/06 09:55						
Acenaphthene	EPA 8270C-HV1	ND	0.00271	0.100	ug/l	1x	6115050	09/15/06 16:28	09/28/06 15:24	
Acenaphthylene	*	ND	0.00252	0.100	*	*	*	*	*	
Anthracene	*	ND	0.00284	0.100	*	*	*	*	*	
Benzo (a) anthracene	*	ND	0.00158	0.0100	*	*	*	*	*	
Benzo (a) pyrene	*	ND	0.00315	0.0100	*	*	*	*	*	
Benzo (b) fluoranthene	*	ND	0.00206	0.0100	*	*	*	*	*	
Benzo (k) fluoranthene	*	ND	0.00186	0.0100	*	*	*	*	*	
Benzo (ghi) perylene	*	ND	0.00296	0.100	*	*	*	*	*	
Chrysene	*	ND	0.00188	0.0100	*	*	*	*	*	
Dibenz (a,h) anthracene	*	ND	0.00250	0.0100	*	*	*	*	*	
Fluoranthene	*	ND	0.00196	0.100	*	*	*	*	*	
Fluorene	*	ND	0.00357	0.100	*	*	*	*	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00246	0.0100	*	*	*	*	*	
1-Methylnaphthalene	*	ND	0.00223	0.100	*	*	*	*	*	
2-Methylnaphthalene	*	ND	0.00228	0.100	*	*	*	*	*	
Naphthalene	*	ND	0.00419	0.100	*	*	*	*	*	
Phenanthrene	*	ND	0.00259	0.100	*	*	*	*	*	
Pyrene	*	ND	0.00244	0.100	*	*	*	*	*	
Surrogate(s): Benzo (a) pyrene-d12		79.0%		20 - 125 %	*				*	
1-Methylnaphthalene-d10		94.3%		39 - 125 %	*				*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 10/04/06 16:58

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0331-01 (SKY-EFF-091306)		Water		Sampled: 09/13/06 09:55						
pH	EPA 150.1	7.04	—		pH Units	1x	6120037	09/13/06 20:00	09/13/06 20:00	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6114066	09/14/06 21:45	09/14/06 22:09	
BPI0331-04 (SKY-BKGD-091306)		Water		Sampled: 09/13/06 10:05						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6114066	09/14/06 21:45	09/14/06 22:09	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/04/06 16:58

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I15051

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I15051-BLK1)										Extracted: 09/15/06 16:35				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	09/21/06 01:32	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 86.8%		Limits: 53-125%	"								09/21/06 01:32	
Octacosane		91.6%		68-125%	"								"	
LCS (6I15051-BS1)										Extracted: 09/15/06 16:35				
Diesel Range Hydrocarbons	NWTPH-Dx	1.85	0.0400	0.250	mg/l	1x	--	2.00	92.5%	(61-132)	--	--	09/21/06 02:02	
Surrogate(s): 2-FBP		Recovery: 84.4%		Limits: 53-125%	"								09/21/06 02:02	
Octacosane		92.8%		68-125%	"								"	
Matrix Spike (6I15051-MS1)										QC Source: BP10284-03				
										Extracted: 09/15/06 16:35				
Diesel Range Hydrocarbons	NWTPH-Dx	1.97	0.0381	0.238	mg/l	1x	0.364	1.90	84.5%	(32-143)	--	--	09/21/06 02:32	
Surrogate(s): 2-FBP		Recovery: 83.2%		Limits: 53-125%	"								09/21/06 02:32	
Octacosane		93.3%		68-125%	"								"	
Matrix Spike Dup (6I15051-MSD1)										QC Source: BP10284-03				
										Extracted: 09/15/06 16:35				
Diesel Range Hydrocarbons	NWTPH-Dx	2.04	0.0381	0.238	mg/l	1x	0.364	1.90	88.2%	(32-143)	3.49%	(40)	09/21/06 03:03	
Surrogate(s): 2-FBP		Recovery: 84.9%		Limits: 53-125%	"								09/21/06 03:03	
Octacosane		92.0%		68-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/04/06 16:58

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6115020

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6115020-BLK1)														
Extracted: 09/15/06 12:22														
Lead	EPA 200.8	0.000670	0.000140	0.00100	mg/l	1x	-	-	-	-	-	-	09/19/06 18:43	J
Arsenic	"	ND	0.000430	0.00100	"	"	-	-	-	-	-	-	"	
LCS (6115020-BS1)														
Extracted: 09/15/06 12:22														
Arsenic	EPA 200.8	0.0759	0.000430	0.00100	mg/l	1x	-	0.0800	94.9%	(85-115)	-	-	09/19/06 18:48	
Lead	"	0.0729	0.000140	0.00100	"	"	-	"	91.1%	"	-	-	"	
Duplicate (6115020-DUP1)														
QC Source: BP10235-06														
Extracted: 09/15/06 12:22														
Arsenic	EPA 200.8	0.0257	0.000430	0.00100	mg/l	1x	0.0246	-	-	-	4.37%	(20)	09/19/06 19:06	
Lead	"	0.0445	0.000140	0.00100	"	"	0.0424	-	-	-	4.83%	"	"	
Matrix Spike (6115020-MS1)														
QC Source: BP10235-06														
Extracted: 09/15/06 12:22														
Lead	EPA 200.8	0.114	0.000140	0.00100	mg/l	1x	0.0424	0.0800	89.5%	(75-125)	-	-	09/19/06 18:54	
Arsenic	"	0.0999	0.000430	0.00100	"	"	0.0246	"	94.1%	"	-	-	"	
Matrix Spike (6115020-MS2)														
QC Source: BP10318-01														
Extracted: 09/15/06 12:22														
Lead	EPA 200.8	0.0718	0.000140	0.00100	mg/l	1x	0.000400	0.0800	89.2%	(75-125)	-	-	09/19/06 19:00	
Arsenic	"	0.0745	0.000430	0.00100	"	"	ND	"	93.1%	"	-	-	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/04/06 16:58

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6I14063

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I14063-BLK1)														Extracted: 09/14/06 20:05
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	-	-	-	-	-	-	09/14/06 21:52	
Ethylbenzene	*	ND	0.125	0.500	*	*	-	-	-	-	-	-	*	
Toluene	*	ND	0.127	0.500	*	*	-	-	-	-	-	-	*	
Total Xylenes	*	ND	0.298	3.00	*	*	-	-	-	-	-	-	*	
<i>Surrogate(s): 1,2-DCA-d4</i>														Recovery: 108%
<i>Toluene-d8</i>														Limits: 70-130% *
<i>4-BFB</i>														75-125% *
														100% 75-125% *
LCS (6I14063-BS1)														Extracted: 09/14/06 20:05
Benzene	EPA 8260B	19.8	0.114	0.500	ug/l	1x	-	20.0	99.0%	(80-120)	-	-	09/14/06 20:53	
Ethylbenzene	*	21.1	0.125	0.500	*	*	-	*	106%	(75-125)	-	-	*	
Toluene	*	20.8	0.127	0.500	*	*	-	*	104%	*	-	-	*	
Total Xylenes	*	64.2	0.298	3.00	*	*	-	60.0	107%	*	-	-	*	
<i>Surrogate(s): 1,2-DCA-d4</i>														Recovery: 104%
<i>Toluene-d8</i>														Limits: 70-130% *
<i>4-BFB</i>														75-125% *
														102% 75-125% *
														98.5%
LCS Dup (6I14063-BSD1)														Extracted: 09/14/06 20:05
Benzene	EPA 8260B	19.0	0.114	0.500	ug/l	1x	-	20.0	95.0%	(80-120)	4.12%	(20)	09/14/06 21:22	
Ethylbenzene	*	20.2	0.125	0.500	*	*	-	*	101%	(75-125)	4.36%	*	*	
Toluene	*	20.2	0.127	0.500	*	*	-	*	101%	*	2.93%	*	*	
Total Xylenes	*	61.9	0.298	3.00	*	*	-	60.0	103%	*	3.65%	*	*	
<i>Surrogate(s): 1,2-DCA-d4</i>														Recovery: 106%
<i>Toluene-d8</i>														Limits: 70-130% *
<i>4-BFB</i>														75-125% *
														100% 75-125% *
														100%

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/04/06 16:58

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6115050

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/15/06 16:28														
Blank (6115050-BLK1)														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	-	-	-	-	-	-	09/28/06 12:01	
Acenaphthylene	*	ND	0.00252	0.100	*	*	-	-	-	-	-	-	*	
Anthracene	*	ND	0.00284	0.100	*	*	-	-	-	-	-	-	*	
Benzo (a) anthracene	*	ND	0.00158	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (a) pyrene	*	ND	0.00315	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (b) fluoranthene	*	ND	0.00206	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (k) fluoranthene	*	ND	0.00186	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (ghi) perylene	*	ND	0.00296	0.100	*	*	-	-	-	-	-	-	*	
Chrysene	*	ND	0.00188	0.0100	*	*	-	-	-	-	-	-	*	
Dibenz (a,h) anthracene	*	ND	0.00250	0.0100	*	*	-	-	-	-	-	-	*	
Fluoranthene	*	ND	0.00196	0.100	*	*	-	-	-	-	-	-	*	
Fluorene	*	ND	0.00357	0.100	*	*	-	-	-	-	-	-	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00246	0.0100	*	*	-	-	-	-	-	-	*	
1-Methylnaphthalene	*	ND	0.00223	0.100	*	*	-	-	-	-	-	-	*	
2-Methylnaphthalene	*	ND	0.00228	0.100	*	*	-	-	-	-	-	-	*	
Naphthalene	*	ND	0.00419	0.100	*	*	-	-	-	-	-	-	*	
Phenanthrene	*	ND	0.00259	0.100	*	*	-	-	-	-	-	-	*	
Pyrene	*	ND	0.00244	0.100	*	*	-	-	-	-	-	-	*	

Surrogate(s): Benzo (a) pyrene-d12
1-Methylnaphthalene-d10

Recovery: 76.3%
69.6%

Limits: 20-125%
39-125%

09/28/06 12:01

Extracted: 09/15/06 16:28														
LCS (6115050-BS2)														
Acenaphthene	EPA 8270C-HVI	15.7	0.0271	1.00	ug/l	10x	-	20.0	78.5%	(44-125)	-	-	09/28/06 10:53	
Acenaphthylene	*	15.1	0.0252	1.00	*	*	-	*	75.5%	(51-125)	-	-	*	
Anthracene	*	15.8	0.0284	1.00	*	*	-	*	79.0%	(50-125)	-	-	*	
Benzo (a) anthracene	*	17.0	0.0158	0.100	*	*	-	*	85.0%	*	-	-	*	
Benzo (a) pyrene	*	16.5	0.0315	0.100	*	*	-	*	82.5%	(47-125)	-	-	*	
Benzo (b) fluoranthene	*	17.2	0.0206	0.100	*	*	-	*	86.0%	(50-125)	-	-	*	
Benzo (k) fluoranthene	*	16.8	0.0186	0.100	*	*	-	*	84.0%	(46-125)	-	-	*	
Benzo (ghi) perylene	*	15.2	0.0296	1.00	*	*	-	*	76.0%	(49-125)	-	-	*	
Chrysene	*	16.0	0.0188	0.100	*	*	-	*	80.0%	(53-125)	-	-	*	
Dibenz (a,h) anthracene	*	15.7	0.0250	0.100	*	*	-	*	78.5%	(47-125)	-	-	*	
Fluoranthene	*	15.9	0.0196	1.00	*	*	-	*	79.5%	(55-125)	-	-	*	
Fluorene	*	15.3	0.0357	1.00	*	*	-	*	76.5%	(52-125)	-	-	*	
Indeno (1,2,3-cd) pyrene	*	15.7	0.0246	0.100	*	*	-	*	78.5%	(49-125)	-	-	*	
1-Methylnaphthalene	*	16.2	0.0223	1.00	*	*	-	*	81.0%	(37-125)	-	-	*	
2-Methylnaphthalene	*	17.3	0.0228	1.00	*	*	-	*	86.5%	(40-125)	-	-	*	
Naphthalene	*	13.5	0.0419	1.00	*	*	-	*	67.5%	(42-125)	-	-	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
10/04/06 16:58

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6115050

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6115050-BS2)														
										Extracted: 09/15/06 16:28				
Phenanthrene	EPA 8270C-HV1	14.9	0.0259	1.00	ug/l	10x	--	20.0	74.5%	(47-125)	--	--	09/28/06 10:53	
Pyrene	"	16.9	0.0244	1.00	"	"	--	"	84.5%	"	--	--	"	
<i>Surrogate(s): Benzo (a) pyrene-d12</i>														
<i>1-Methylnaphthalene-d10</i>														
		Recovery:	71.8%	Limits: 20-125%		"						09/28/06 10:53		
			76.1%	39-125%		"								

LCS Dup (6115050-BS2)

Extracted: 09/15/06 16:28														
Acenaphthene	EPA 8270C-HV1	16.1	0.0271	1.00	ug/l	10x	--	20.0	80.5%	(44-125)	2.52%	(35)	09/28/06 11:27	
Acenaphthylene	"	15.4	0.0252	1.00	"	"	--	"	77.0%	(51-125)	1.97%	"	"	
Anthracene	"	16.3	0.0284	1.00	"	"	--	"	81.5%	(50-125)	3.12%	"	"	
Benzo (a) anthracene	"	17.5	0.0158	0.100	"	"	--	"	87.5%	"	2.90%	"	"	
Benzo (a) pyrene	"	17.1	0.0315	0.100	"	"	--	"	85.5%	(47-125)	3.57%	"	"	
Benzo (b) fluoranthene	"	17.6	0.0206	0.100	"	"	--	"	88.0%	(50-125)	2.30%	"	"	
Benzo (k) fluoranthene	"	17.8	0.0186	0.100	"	"	--	"	89.0%	(46-125)	5.78%	"	"	
Benzo (ghi) perylene	"	15.7	0.0296	1.00	"	"	--	"	78.5%	(49-125)	3.24%	"	"	
Chrysene	"	16.4	0.0188	0.100	"	"	--	"	82.0%	(53-125)	2.47%	"	"	
Dibenz (a,h) anthracene	"	16.0	0.0250	0.100	"	"	--	"	80.0%	(47-125)	1.89%	"	"	
Fluoranthene	"	16.4	0.0196	1.00	"	"	--	"	82.0%	(55-125)	3.10%	"	"	
Fluorene	"	15.7	0.0357	1.00	"	"	--	"	78.5%	(52-125)	2.58%	"	"	
Indeno (1,2,3-cd) pyrene	"	16.0	0.0246	0.100	"	"	--	"	80.0%	(49-125)	1.89%	"	"	
1-Methylnaphthalene	"	16.4	0.0223	1.00	"	"	--	"	82.0%	(37-125)	1.23%	"	"	
2-Methylnaphthalene	"	17.8	0.0228	1.00	"	"	--	"	89.0%	(40-125)	2.85%	"	"	
Naphthalene	"	15.4	0.0419	1.00	"	"	--	"	77.0%	(42-125)	13.1%	"	"	
Phenanthrene	"	15.3	0.0259	1.00	"	"	--	"	76.5%	(47-125)	2.65%	"	"	
Pyrene	"	17.0	0.0244	1.00	"	"	--	"	85.0%	"	0.590%	"	"	
<i>Surrogate(s): Benzo (a) pyrene-d12</i>														
<i>1-Methylnaphthalene-d10</i>														
		Recovery:	75.3%	Limits: 20-125%		"						09/28/06 11:27		
			83.1%	39-125%		"								

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/04/06 16:58
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I14066			Water Preparation Method: General Preparation											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I14066-BLK1)														
Extracted: 09/14/06 21:45														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	09/14/06 22:09	
LCS (6I14066-BS1)														
Extracted: 09/14/06 21:45														
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.3	100%	(90-110)	—	—	09/14/06 22:09	
Duplicate (6I14066-DUP1)														
QC Source: BP10331-01														
Extracted: 09/14/06 21:45														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	1.80% (20)	—	09/14/06 22:09	

QC Batch: 6I20037			Water Preparation Method: General Preparation											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6I20037-DUP1)			QC Source: BP10331-01						Extracted: 09/13/06 20:00					
pH	EPA 150.1	7.03	—		pH Units	1x	7.04	—	—	—	0.142% (10)		09/13/06 20:00	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/04/06 16:58

Notes and Definitions

Report Specific Notes:

- D-09 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



Revised Chain of Custody

 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BPIO331															
		Laboratory: TEST AMERICA Address: 11720 NORTH CREEK PKWY N #400 City/State/ZIP: BOTHELL, WA 98011		Project Manager: KATE HANDEY Phone: 425-420-9299 Fax:		SHIPMENT INFORMATION															
BNSF PROJECT INFORMATION		Project State of Origin: WA Project City: SKYKOMISH		CONSULTANT INFORMATION				Project Number: BW050-19390-220 Project Manager: S. HOWARD													
BNSF Project Number: BNSF Project Name: SKYKOMISH - EFF NPDES BNSF Contact: BRUCE SHEPPARD		BNSF Work Order No.: TTO100-606		Company: THE RETEC GROUP INC Address: 10113 NW KUCKATTA WAY #217 City/State/ZIP: SEATTLE, WA 98134				Email: SHOARD@RETEC.COM Phone: 206-629-9309 Fax:													
TURNAROUND TIME		DELIVERABLES				METHODS FOR ANALYSIS															
☐ 1-day Rush ☐ 2-day Rush ☐ 3-day Rush		☐ 5- to 8-day Rush ☒ Standard 10-Day ☐ Other _____				☐ BNSF Standard (Level II) ☐ Level III ☐ Level IV				☐ Other Deliverables? ☒ EDD Req. Format? RETEC				NWTPH-DX NUS PAH BTEX TURBIDITY PH AS, Pb							
SAMPLE INFORMATION																					
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix	METHODS FOR ANALYSIS								COMMENTS	LAB USE				
		Date	Time	Sampler																	
1. SKY-NPDES-EFF-091306	9	9/13/06	0955	AA/SA	N	G	W	X	X	X	X	X	X			-01					
2. SKY-NPDES-INF-091306	2	9/13/06	0945	AA/SA	N	G	W	X								-02					
3. SKY-NPDES-TB-091306	1	9/13/06	09:50	AA/SA	N	G	W			X						-03					
4. SKY-NPDES-BKGD-091306	1	9/13/06	1005	AA/SA	N	G	W				X					-04					
5. SKY-NPDES-MID-091306	2	9/13/06	0942	AA/SA	N	G	W	X								-05					
6. RLS AS REQUESTED IN E-MAIL																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
13.																					
14.																					
15.																					
Requisitioned By: <i>[Signature]</i> Requisitioned By: <i>Richard W. Porsche</i> Received By: <i>[Signature]</i> Received By: <i>Kate Key</i>	Date/Time: 9/13/06 12:34 Date/Time: 9/13/06 14:10	Date/Time: 9/13/06 12:34 Date/Time: 9/13/06 14:10 Date/Time: 9/13/06 10:20	Comments and Special Analytical Requirements:																		
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab Custody Intact? ☐ Yes ☐ No	Custody Seal No.:																	
BNSF COC No.:																					

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

8.5°C w/o

Rev 10/02/05

 CHAIN OF CUSTODY		LABORATORY INFORMATION				LAB WORK ORDER: BP10331									
		Laboratory: TEST AMERICA Address: 11720 NORTH CREEK PKWY N #400 City/State/ZIP: BOTHELL, WA 98011		Project Manager: KATE HANEY Phone: 425-420-9299 Fax:		SHIPMENT INFORMATION									
BNSF PROJECT INFORMATION		Project State of Origin: WA Project City: SKYKOMISH		CONSULTANT INFORMATION		Project Number: BN050-19390-220 Project Manager: S. HOWARD									
BNSF Project Name: SKYKOMISH LEVEE NPDES BNSF Contact: BRUCE SHEPPARD		BNSF Work Order No.: TT0100-606		Company: THE RETEC GROUP INC Address: 10113W KUCKITAT WAY #217 City/State/ZIP: SEATTLE, WA 98134		Email: SHOWARD@RETEC.COM Phone: 206-629-9399 Fax:									
TURNAROUND TIME		DELIVERABLES		METHODS FOR ANALYSIS											
☐ 1-day Rush ☐ 5- to 6-day Rush ☐ 2-day Rush ☒ Standard 10-Day ☐ 3-day Rush ☐ Other _____		☐ BNSF Standard (Level II) ☐ Level III ☒ EDD Req. Format? ☐ Level IV RETEC		NWTPH-DX NCS <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>PAH</td> <td>BTEX</td> <td>TURBIDITY</td> <td>PH</td> <td>AS, Pb</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>						PAH	BTEX	TURBIDITY	PH	AS, Pb	X
PAH	BTEX	TURBIDITY	PH	AS, Pb											
X	X	X	X	X											
SAMPLE INFORMATION															
Sample Identification	Containers	Sample Collection			Filtered Y/N	Type (Comp/Grab)	Matrix			COMMENTS	LAB USE				
1. SKY-NPDES-EFF-091306	9	9/13/06	0955	AA/6A	N	G	W	X	X	X	-01				
2. SKY-NPDES-INF-091306	2	9/12/06	0945	AA/6A	N	G	W	X			-02				
3. SKY-NPDES-TB-091306	1	9/13/06		AA/6A	N	G	W		X		-03				
4. SKY-NPDES-BKGD-091306	1	9/13/06	1005	AA/6A	N	G	W			X	-04				
5. SKY-NPDES-MID-091306	2	9/13/06	0942	AA/6A	N	G	W	X			-05				
6. RLS AS REQUESTED IN E-MAIL															
7.															
8.															
9.															
10.															
11.															
12.															
13.															
14.															
15.															
Requisitioned By: <i>[Signature]</i> Requisitioned By: <i>[Signature]</i> Requisitioned By:		Date/Time: 9/13/06 12:34 Date/Time: 9/13/06 14:10 Date/Time:		Received By: <i>[Signature]</i> Received By: <i>[Signature]</i> Received By:		Date/Time: 9/13/06 12:34 Date/Time: 9/13/06 14:10 Date/Time: 9/13/06 10:20		Comments and Special Analytical Requirements:							
Received by Laboratory:		Date/Time:		Lab Remarks:		Lab Custody Intact? ☐ Yes ☐ No						Custody Seal No.: BNSF COC No.:			

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/03

8.5% w/o

October 05, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

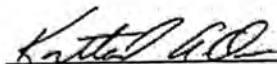
RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 09/21/06 14:20.
The following list is a summary of the Work Orders contained in this report, generated on 10/05/06 15:55.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPI0550	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA



Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

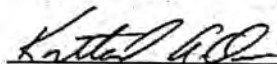
10/05/06 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-092106	BPI0550-01	Water	09/21/06 10:50	09/21/06 14:20
SKY-INF-092106	BPI0550-02	Water	09/21/06 10:35	09/21/06 14:20
SKY-TB-092106	BPI0550-03	Water	09/21/06 12:00	09/21/06 14:20
SKY-BKGD-092106	BPI0550-04	Water	09/21/06 10:25	09/21/06 14:20
SKY-MID-092106	BPI0550-05	Water	09/21/06 10:40	09/21/06 14:20

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

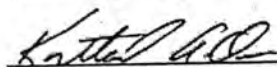
Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/05/06 15:55

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0550-01 (SKY-EFF-092106)		Water		Sampled: 09/21/06 10:50						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0381	0.238	mg/l	1x	6121049	09/21/06 16:37	10/05/06 10:56	
Lube Oil Range Hydrocarbons	"	ND	0.0857	0.476	"	"	"	"	"	
Surrogate(s): 2-FBP			95.8%		53 - 125 %	"				
Octacosane			94.5%		68 - 125 %	"				
BPI0550-02 (SKY-INF-092106)		Water		Sampled: 09/21/06 10:35						
Diesel Range Hydrocarbons	NWTPH-Dx	0.182	0.0377	0.236	mg/l	1x	6121049	09/21/06 16:37	10/05/06 11:27	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			100%		53 - 125 %	"				
Octacosane			98.7%		68 - 125 %	"				
BPI0550-05 (SKY-MID-092106)		Water		Sampled: 09/21/06 10:40						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0381	0.238	mg/l	1x	6121049	09/21/06 16:37	10/04/06 21:55	
Lube Oil Range Hydrocarbons	"	ND	0.0857	0.476	"	"	"	"	"	
Surrogate(s): 2-FBP			82.8%		53 - 125 %	"				
Octacosane			92.0%		68 - 125 %	"				

TestAmerica - Seattle, WA



Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

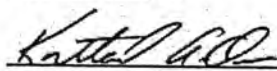
Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 10/05/06 15:55

Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BP10550-01 (SKY-EFF-092106)		Water		Sampled: 09/21/06 10:50						
Arsenic	EPA 200.8	0.000660	0.000430	0.00100	mg/l	1x	6122050	09/22/06 15:14	09/26/06 00:14	J
Lead	"	ND	0.000140	0.00100	"	"	"	"	"	

TestAmerica - Seattle, WA


 Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/05/06 15:55

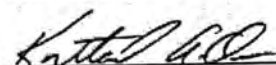
Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0550-01 (SKY-EFF-092106)										
Water Sampled: 09/21/06 10:50										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6125033	09/22/06 19:56	09/23/06 03:35	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			107%		70 - 130 %	"				"
Toluene-d8			103%		75 - 125 %	"				"
4-BFB			102%		75 - 125 %	"				"
BPI0550-03 (SKY-TB-092106)										
Water Sampled: 09/21/06 12:00										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6125033	09/22/06 19:56	09/23/06 03:05	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			107%		70 - 130 %	"				"
Toluene-d8			100%		75 - 125 %	"				"
4-BFB			102%		75 - 125 %	"				"

TestAmerica - Seattle, WA

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/05/06 15:55

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0550-01 (SKY-EFF-092106)		Water		Sampled: 09/21/06 10:50						
Acenaphthene	EPA 8270C-HVI	ND	0.00256	0.0943	ug/l	1x	6122016	09/22/06 10:28	10/03/06 13:33	
Acenaphthylene	*	ND	0.00238	0.0943	*	*	*	*	*	
Anthracene	*	ND	0.00268	0.0943	*	*	*	*	*	
Benzo (a) anthracene	*	ND	0.00149	0.00943	*	*	*	*	*	
Benzo (a) pyrene	*	ND	0.00297	0.00943	*	*	*	*	*	
Benzo (b) fluoranthene	*	ND	0.00194	0.00943	*	*	*	*	*	
Benzo (k) fluoranthene	*	ND	0.00175	0.00943	*	*	*	*	*	
Benzo (ghi) perylene	*	ND	0.00279	0.0943	*	*	*	*	*	
Chrysene	*	ND	0.00177	0.00943	*	*	*	*	*	
Dibenz (a,h) anthracene	*	ND	0.00236	0.00943	*	*	*	*	*	
Fluoranthene	*	ND	0.00185	0.0943	*	*	*	*	*	
Fluorene	*	ND	0.00337	0.0943	*	*	*	*	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00232	0.00943	*	*	*	*	*	
1-Methylnaphthalene	*	ND	0.00210	0.0943	*	*	*	*	*	
2-Methylnaphthalene	*	ND	0.00215	0.0943	*	*	*	*	*	
Naphthalene	*	ND	0.00395	0.0943	*	*	*	*	*	
Phenanthrene	*	ND	0.00244	0.0943	*	*	*	*	*	
Pyrene	*	ND	0.00230	0.0943	*	*	*	*	*	
Surrogate(s): Benzo (a) pyrene-d12		73.1%		20 - 125 %	*					
1-Methylnaphthalene-d10		94.1%		39 - 125 %	*					

TestAmerica - Seattle, WA

Kortland Orr

Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 10/05/06 15:55

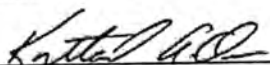
Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0550-01 (SKY-EFF-092106)		Water		Sampled: 09/21/06 10:50						
pH	EPA 150.1	6.88	—		pH Units	1x	6122033	09/21/06 19:50	09/21/06 19:50	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6122023	09/21/06 20:00	09/22/06 11:45	
BPI0550-04 (SKY-BKGD-092106)		Water		Sampled: 09/21/06 10:25						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6122023	09/21/06 20:00	09/22/06 11:45	

TestAmerica - Seattle, WA

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/05/06 15:55

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6I21049

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I21049-BLK1)										Extracted: 09/21/06 16:37				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	10/05/06 00:25	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 85.6%		Limits: 53-125%	"								10/05/06 00:25	
Octacosane		84.8%		68-125%	"								"	
LCS (6I21049-BS1)										Extracted: 09/21/06 16:37				
Diesel Range Hydrocarbons	NWTPH-Dx	1.73	0.0400	0.250	mg/l	1x	--	2.00	86.5%	(61-132)	--	--	10/05/06 00:55	
Surrogate(s): 2-FBP		Recovery: 86.4%		Limits: 53-125%	"								10/05/06 00:55	
Octacosane		96.8%		68-125%	"								"	
LCS Dup (6I21049-BSD1)										Extracted: 09/21/06 16:37				
Diesel Range Hydrocarbons	NWTPH-Dx	1.69	0.0400	0.250	mg/l	1x	--	2.00	84.5%	(61-132)	2.34%	(40)	10/05/06 01:25	
Surrogate(s): 2-FBP		Recovery: 89.6%		Limits: 53-125%	"								10/05/06 01:25	
Octacosane		89.6%		68-125%	"								"	

TestAmerica - Seattle, WA

Kortland Orr

Kortland Orr For Kate Haney, Project Manager

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



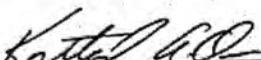
The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/05/06 15:55
---	---	--

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I22050 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/22/06 15:14														
Blank (6I22050-BLK1)														
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	—	—	—	—	—	—	09/25/06 21:38	
Lead	"	ND	0.000140	0.00100	"	"	—	—	—	—	—	—	09/26/06 21:59	
Extracted: 09/22/06 15:14														
LCS (6I22050-BS1)														
Lead	EPA 200.8	0.0726	0.000140	0.00100	mg/l	1x	—	0.0800	90.8%	(85-115)	—	—	09/26/06 22:04	
Arsenic	"	0.0750	0.000430	0.00100	"	"	—	"	93.8%	"	—	—	09/25/06 21:44	
Extracted: 09/22/06 15:14														
Duplicate (6I22050-DUP1) QC Source: BP10380-04														
Arsenic	EPA 200.8	0.00636	0.000430	0.00100	mg/l	1x	0.00597	—	—	—	6.33% (20)	—	09/25/06 22:01	
Lead	"	ND	0.000140	0.00100	"	"	ND	—	—	—	NR	"	09/26/06 22:45	
Extracted: 09/22/06 15:14														
Matrix Spike (6I22050-MS1) QC Source: BP10380-04														
Arsenic	EPA 200.8	0.0818	0.000430	0.00100	mg/l	1x	0.00597	0.0800	94.8%	(75-125)	—	—	09/25/06 21:49	
Lead	"	0.0728	0.000140	0.00100	"	"	ND	"	91.0%	"	—	—	09/26/06 22:10	
Extracted: 09/22/06 15:14														
Matrix Spike (6I22050-MS2) QC Source: BP10493-01														
Arsenic	EPA 200.8	0.190	0.0430	0.100	mg/l	100x	0.0980	0.0800	115%	(75-125)	—	—	09/25/06 21:55	
Lead	"	0.0830	0.0140	0.100	"	"	ND	"	104%	"	—	—	09/26/06 22:22	J

TestAmerica - Seattle, WA


 Kortland Orr For Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/05/06 15:55

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: **6125033**

Water Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (6125033-BLK1)

Extracted: 09/22/06 19:56

Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	09/23/06 02:35	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	

Surrogate(s): **1,2-DCA-d4**

Recovery: **107%**

Limits: **70-130%**

09/23/06 02:35

Toluene-d8

103%

75-125%

"

4-BFB

102%

75-125%

"

LCS (6125033-BS1)

Extracted: 09/22/06 19:56

Benzene	EPA 8260B	20.0	0.114	0.500	ug/l	1x	—	20.0	100%	(80-120)	—	—	09/23/06 01:36	
Ethylbenzene	"	20.1	0.125	0.500	"	"	—	"	100%	(75-125)	—	—	"	
Toluene	"	20.3	0.127	0.500	"	"	—	"	102%	"	—	—	"	
Total Xylenes	"	60.7	0.298	3.00	"	"	—	60.0	101%	"	—	—	"	

Surrogate(s): **1,2-DCA-d4**

Recovery: **106%**

Limits: **70-130%**

09/23/06 01:36

Toluene-d8

103%

75-125%

"

4-BFB

102%

75-125%

"

LCS Dup (6125033-BSD1)

Extracted: 09/22/06 19:56

Benzene	EPA 8260B	20.0	0.114	0.500	ug/l	1x	—	20.0	100%	(80-120)	0.00% (20)	09/23/06 02:05	
Ethylbenzene	"	20.2	0.125	0.500	"	"	—	"	101%	(75-125)	0.496%	"	"
Toluene	"	19.9	0.127	0.500	"	"	—	"	99.5%	"	1.99%	"	"
Total Xylenes	"	62.9	0.298	3.00	"	"	—	60.0	105%	"	3.56%	"	"

Surrogate(s): **1,2-DCA-d4**

Recovery: **107%**

Limits: **70-130%**

09/23/06 02:05

Toluene-d8

102%

75-125%

"

4-BFB

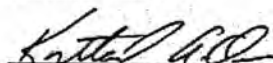
102%

75-125%

"

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/05/06 15:55

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6122016

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6122016-BLK2)														
Extracted: 09/22/06 10:28														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	10/03/06 12:59	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 71.9% Limits: 20-125% * 10/03/06 12:59														
1-Methylnaphthalene-d10 102% 39-125% *														

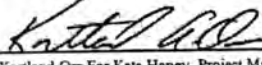
LCS (6122016-BS2)

Extracted: 09/22/06 10:28

Acenaphthene	EPA 8270C-HVI	16.3	0.0271	1.00	ug/l	10x	--	20.0	81.5%	(44-125)	--	--	10/03/06 11:52	
Acenaphthylene	"	15.7	0.0252	1.00	"	"	--	"	78.5%	(51-125)	--	--	"	
Anthracene	"	15.0	0.0284	1.00	"	"	--	"	75.0%	(50-125)	--	--	"	
Benzo (a) anthracene	"	15.6	0.0158	0.100	"	"	--	"	78.0%	"	--	--	"	
Benzo (a) pyrene	"	15.4	0.0315	0.100	"	"	--	"	77.0%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	14.4	0.0206	0.100	"	"	--	"	72.0%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	17.4	0.0186	0.100	"	"	--	"	87.0%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	14.2	0.0296	1.00	"	"	--	"	71.0%	(49-125)	--	--	"	
Chrysene	"	14.6	0.0188	0.100	"	"	--	"	73.0%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	15.0	0.0250	0.100	"	"	--	"	75.0%	(47-125)	--	--	"	
Fluoranthene	"	15.6	0.0196	1.00	"	"	--	"	78.0%	(55-125)	--	--	"	
Fluorene	"	15.4	0.0357	1.00	"	"	--	"	77.0%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	15.1	0.0246	0.100	"	"	--	"	75.5%	(49-125)	--	--	"	
1-Methylnaphthalene	"	16.2	0.0223	1.00	"	"	--	"	81.0%	(37-125)	--	--	"	
2-Methylnaphthalene	"	17.6	0.0228	1.00	"	"	--	"	88.0%	(40-125)	--	--	"	
Naphthalene	"	15.7	0.0419	1.00	"	"	--	"	78.5%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/05/06 15:55

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6122016

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6122016-BS2)														
										Extracted: 09/22/06 10:28				
Phenanthrene	EPA 8270C-HVI	14.3	0.0259	1.00	ug/l	10x	—	20.0	71.5%	(47-125)	—	—	10/03/06 11:52	
Pyrene	"	15.2	0.0244	1.00	"	"	—	"	76.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 68.6%														
Limits: 20-125%														
72.2%														
39-125%														

LCS Dup (6122016-BS2)

Extracted: 09/22/06 10:28														
Acenaphthene	EPA 8270C-HVI	16.1	0.0271	1.00	ug/l	10x	—	20.0	80.5%	(44-125)	1.23%	(35)	10/03/06 12:26	
Acenaphthylene	"	15.7	0.0252	1.00	"	"	—	"	78.5%	(51-125)	0.00%	"	"	
Anthracene	"	15.5	0.0284	1.00	"	"	—	"	77.5%	(50-125)	3.28%	"	"	
Benzo (a) anthracene	"	15.9	0.0158	0.100	"	"	—	"	79.5%	"	1.90%	"	"	
Benzo (a) pyrene	"	15.9	0.0315	0.100	"	"	—	"	79.5%	(47-125)	3.19%	"	"	
Benzo (b) fluoranthene	"	16.0	0.0206	0.100	"	"	—	"	80.0%	(50-125)	10.5%	"	"	
Benzo (k) fluoranthene	"	16.4	0.0186	0.100	"	"	—	"	82.0%	(46-125)	5.92%	"	"	
Benzo (ghi) perylene	"	14.6	0.0296	1.00	"	"	—	"	73.0%	(49-125)	2.78%	"	"	
Chrysene	"	14.8	0.0188	0.100	"	"	—	"	74.0%	(53-125)	1.36%	"	"	
Dibenz (a,h) anthracene	"	15.6	0.0250	0.100	"	"	—	"	78.0%	(47-125)	3.92%	"	"	
Fluoranthene	"	15.7	0.0196	1.00	"	"	—	"	78.5%	(55-125)	0.639%	"	"	
Fluorene	"	15.8	0.0357	1.00	"	"	—	"	79.0%	(52-125)	2.56%	"	"	
Indeno (1,2,3-cd) pyrene	"	15.4	0.0246	0.100	"	"	—	"	77.0%	(49-125)	1.97%	"	"	
1-Methylnaphthalene	"	16.1	0.0223	1.00	"	"	—	"	80.5%	(37-125)	0.619%	"	"	
2-Methylnaphthalene	"	17.2	0.0228	1.00	"	"	—	"	86.0%	(40-125)	2.30%	"	"	
Naphthalene	"	15.5	0.0419	1.00	"	"	—	"	77.5%	(42-125)	1.28%	"	"	
Phenanthrene	"	14.4	0.0259	1.00	"	"	—	"	72.0%	(47-125)	0.697%	"	"	
Pyrene	"	15.3	0.0244	1.00	"	"	—	"	76.5%	"	0.656%	"	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 68.2%														
Limits: 20-125%														
70.0%														
39-125%														

TestAmerica - Seattle, WA

Kortland Orr

Kortland Orr For Kate Haney, Project Manager

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



The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/05/06 15:55

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6I22023 Water Preparation Method: General Prep

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I22023-BLK1)														
Extracted: 09/21/06 20:00														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	09/22/06 11:45	
LCS (6I22023-BS1)														
Extracted: 09/21/06 20:00														
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.3	100%	(90-110)	—	—	09/22/06 11:45	
Duplicate (6I22023-DUP1)														
QC Source: BP10550-04														
Extracted: 09/21/06 20:00														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	1.77% (20)	—	09/22/06 11:45	

QC Batch: 6I22033 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6I22033-DUP1)														
QC Source: BP10550-01														
Extracted: 09/21/06 19:50														
pH	EPA 150.1	6.86	—		pH Units	1x	6.88	—	—	—	0.291% (10)	—	09/21/06 19:50	

TestAmerica - Seattle, WA

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Kortland Orr

Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
10/05/06 15:55

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kortland Orr For Kate Haney, Project Manager

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TestAmerica

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First 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
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BRT0550**

CLIENT: BNSF		INVOICE TO: BNSF	
REPORT TO: Steve Howard ADDRESS: 1011 SW Klickitat Way, Ste 207 Seattle WA 98134		P.O. NUMBER: TT 0100 - G06	
PHONE: 206-624-9349 FAX: 206-624-2839		PRESERVATIVE	
PROJECT NAME: SKYkomish Lake		REQUESTED ANALYSES	
PROJECT NUMBER: BNSD-19390-220			
SAMPLED BY: S. Albano / D. Metz			

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NO SIG	PAH	BTEX	THURIDITY	pH	AS, Pb	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
SKY-NPDES-FFF-092106	9-21-06 / 1050	X	X	X	X	X	X	W	9		01
SKY-NPDES-INF-092106	9-21-06 / 1035	X						W	2		02
SKY-NPDES-TB-092106	9-21-06 / 1025			X				W	1		03
SKY-NPDES-BKGD-092106	9-21-06 / 1025				X			W	1		04
SKY-NPDES-MID-092106	9-21-06 / 1040	X						W	2		05
RL's as requested in e-mail.											

RELEASED BY: Dennis Metz	DATE: 9-21-06	RECEIVED BY: Kate Hume	DATE: 9/21/06
PRINT NAME: Dennis Metz	TIME: 1510	PRINT NAME: Kate Hume	TIME: 1420
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

ADDITIONAL REMARKS:

TEMP: **11.1** PAGE **OF**

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

October 06, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

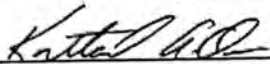
Enclosed are the results of analyses for samples received by the laboratory on 09/27/06 16:10.
The following list is a summary of the Work Orders contained in this report, generated on 10/06/06 09:37.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPI0737	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

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



Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 10/06/06 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-092706	BPI0737-01	Water	09/27/06 13:00	09/27/06 16:10
SKY-INF-092706	BPI0737-02	Water	09/27/06 12:45	09/27/06 16:10
SKY-BKGD-092706	BPI0737-03	Water	09/27/06 11:55	09/27/06 16:10
SKY-MID-092706	BPI0737-04	Water	09/27/06 12:50	09/27/06 16:10
SKY-TB-092706	BPI0737-05	Water	09/27/06 12:00	09/27/06 16:10

TestAmerica - Seattle, WA



Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

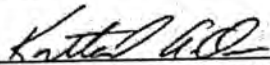
Report Created:
10/06/06 09:37

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0737-01 (SKY-EFF-092706)		Water		Sampled: 09/27/06 13:00						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0377	0.236	mg/l	1x	6128025	09/28/06 11:11	10/06/06 03:08	
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			91.9%		53 - 125 %	"			"	
Octacosane			87.3%		68 - 125 %	"			"	
BPI0737-02 (SKY-INF-092706)		Water		Sampled: 09/27/06 12:45						
Diesel Range Hydrocarbons	NWTPH-Dx	0.149	0.0377	0.236	mg/l	1x	6128025	09/28/06 11:11	10/06/06 03:38	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			90.7%		53 - 125 %	"			"	
Octacosane			84.3%		68 - 125 %	"			"	
BPI0737-04 (SKY-MID-092706)		Water		Sampled: 09/27/06 12:50						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0377	0.236	mg/l	1x	6128025	09/28/06 11:11	10/06/06 04:08	
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			88.6%		53 - 125 %	"			"	
Octacosane			84.3%		68 - 125 %	"			"	

TestAmerica - Seattle, WA

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Kortland Orr For Kate Haney, Project Manager



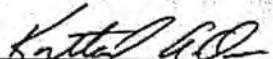
The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/06/06 09:37
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Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0737-01 (SKY-EFF-092706)		Water				Sampled: 09/27/06 13:00				
Arsenic	EPA 200.8	0.00146	0.000430	0.00100	mg/l	1x	6128022	09/28/06 09:49	09/29/06 12:06	
Lead	*	0.000280	0.000140	0.00100	*	*	*	*	*	J

TestAmerica - Seattle, WA

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 Kortland Orr For Kate Haney, Project Manager



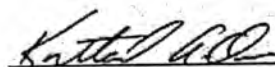
The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/06/06 09:37
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0737-01 (SKY-EFF-092706)			Water		Sampled: 09/27/06 13:00					
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6127048	09/27/06 16:44	09/27/06 18:55	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			97.0%		70 - 130 %		"			"
Toluene-d8			96.0%		75 - 125 %		"			"
4-BFB			102%		75 - 125 %		"			"
BPI0737-05 (SKY-TB-092706)			Water		Sampled: 09/27/06 12:00					
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6127048	09/27/06 16:44	09/27/06 18:29	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			97.0%		70 - 130 %		"			"
Toluene-d8			95.0%		75 - 125 %		"			"
4-BFB			101%		75 - 125 %		"			"

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/06/06 09:37

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0737-01 (SKY-EFF-092706)		Water		Sampled: 09/27/06 13:00						
Acenaphthene	EPA 8270C-HVI	ND	0.00263	0.0971	ug/l	1x	6128018	09/28/06 09:23	10/03/06 19:44	
Acenaphthylene	"	ND	0.00245	0.0971	"	"	"	"	"	
Anthracene	"	ND	0.00276	0.0971	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00153	0.00971	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00306	0.00971	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00200	0.00971	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00181	0.00971	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00287	0.0971	"	"	"	"	"	
Chrysene	"	ND	0.00183	0.00971	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00243	0.00971	"	"	"	"	"	
Fluoranthene	"	ND	0.00190	0.0971	"	"	"	"	"	
Fluorene	"	ND	0.00347	0.0971	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00239	0.00971	"	"	"	"	"	
1-Methylnaphthalene	"	0.00841	0.00217	0.0971	"	"	"	"	"	J
2-Methylnaphthalene	"	0.0106	0.00221	0.0971	"	"	"	"	"	J
Naphthalene	"	ND	0.00407	0.0971	"	"	"	"	"	
Phenanthrene	"	ND	0.00251	0.0971	"	"	"	"	"	
Pyrene	"	ND	0.00237	0.0971	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12		67.1%		20 - 125 %	"					
1-Methylnaphthalene-d10		91.2%		39 - 125 %	"					

TestAmerica - Seattle, WA

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Kortland Orr

Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 10/06/06 09:37

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPI0737-01 (SKY-EFF-092706)		Water		Sampled: 09/27/06 13:00						
pH	EPA 150.1	7.59	—		pH Units	1x	6127067	09/27/06 19:00	09/27/06 19:30	
Turbidity	EPA 180.1	4.80	—	1.00	NTU	*	6128041	09/28/06 14:30	09/28/06 14:30	
BPI0737-03 (SKY-BKGD-092706)		Water		Sampled: 09/27/06 11:55						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6128041	09/28/06 14:30	09/28/06 14:30	

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Kate Haney

Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
10/06/06 09:37

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

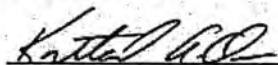
QC Batch: 6128025

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6128025-BLK1)										Extracted: 09/28/06 11:11				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	-	-	-	-	-	-	10/05/06 23:38	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	-	-	-	-	-	-	"	
Surrogate(s): 2-FBP		Recovery:	115%		Limits: 53-125%	"							10/05/06 23:38	
Octacosane			99.6%		68-125%	"							"	
LCS (6128025-BS1)										Extracted: 09/28/06 11:11				
Diesel Range Hydrocarbons	NWTPH-Dx	2.13	0.0400	0.250	mg/l	1x	-	2.00	106%	(61-132)	-	-	10/06/06 00:08	
Surrogate(s): 2-FBP		Recovery:	108%		Limits: 53-125%	"							10/06/06 00:08	
Octacosane			98.4%		68-125%	"							"	
LCS Dup (6128025-BSD1)										Extracted: 09/28/06 11:11				
Diesel Range Hydrocarbons	NWTPH-Dx	2.08	0.0400	0.250	mg/l	1x	-	2.00	104%	(61-132)	2.38%	(40)	10/06/06 00:38	
Surrogate(s): 2-FBP		Recovery:	108%		Limits: 53-125%	"							10/06/06 00:38	
Octacosane			98.0%		68-125%	"							"	

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 10/06/06 09:37

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6I28022 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/28/06 09:49														
Blank (6I28022-BLK1)														
Lead	EPA 200.8	ND	0.000140	0.00100	mg/l	1x	-	-	-	-	-	-	09/29/06 11:26	
Arsenic	*	ND	0.000430	0.00100	*	*	-	-	-	-	-	-	*	
Extracted: 09/28/06 09:49														
LCS (6I28022-BS1)														
Arsenic	EPA 200.8	0.0834	0.000430	0.00100	mg/l	1x	-	0.0800	104%	(85-115)	-	-	09/29/06 11:32	
Lead	*	0.0828	0.000140	0.00100	*	*	-	*	104%	*	-	-	*	
QC Source: BP10737-01														
Extracted: 09/28/06 09:49														
Duplicate (6I28022-DUP1)														
Arsenic	EPA 200.8	0.00168	0.000430	0.00100	mg/l	1x	0.00146	-	-	-	14.0% (20)	-	09/29/06 11:43	
Lead	*	0.000280	0.000140	0.00100	*	*	0.000280	-	-	-	0.00% *	-	*	
QC Source: BP10737-01														
Extracted: 09/28/06 09:49														
Matrix Spike (6I28022-MS1)														
Arsenic	EPA 200.8	0.0871	0.000430	0.00100	mg/l	1x	0.00146	0.0800	107%	(75-125)	-	-	09/29/06 11:38	
Lead	*	0.0849	0.000140	0.00100	*	*	0.000280	*	106%	*	-	-	*	

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Kortland Orr For Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
10/06/06 09:37

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6I27048 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6I27048-BLK1)										Extracted: 09/27/06 08:44				
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	09/27/06 18:03	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 98.0% Limits: 70-130% " 09/27/06 18:03</i>														
<i>Toluene-d8 94.5% 75-125% " "</i>														
<i>4-BFB 103% 75-125% " "</i>														
LCS (6I27048-BS1)										Extracted: 09/27/06 08:44				
Benzene	EPA 8260B	20.9	0.114	0.500	ug/l	1x	—	20.0	104%	(80-120)	—	—	09/27/06 17:11	
Ethylbenzene	"	21.1	0.125	0.500	"	"	—	"	106%	(75-125)	—	—	"	
Toluene	"	21.1	0.127	0.500	"	"	—	"	106%	"	—	—	"	
Total Xylenes	"	65.5	0.298	3.00	"	"	—	60.0	109%	"	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.0% Limits: 70-130% " 09/27/06 17:11</i>														
<i>Toluene-d8 96.0% 75-125% " "</i>														
<i>4-BFB 99.0% 75-125% " "</i>														
LCS Dup (6I27048-BSD1)										Extracted: 09/27/06 08:44				
Benzene	EPA 8260B	18.7	0.114	0.500	ug/l	1x	—	20.0	93.5%	(80-120)	11.1% (20)	—	09/27/06 17:37	
Ethylbenzene	"	19.2	0.125	0.500	"	"	—	"	96.0%	(75-125)	9.43%	"	"	
Toluene	"	19.3	0.127	0.500	"	"	—	"	96.5%	"	8.91%	"	"	
Total Xylenes	"	59.5	0.298	3.00	"	"	—	60.0	99.2%	"	9.60%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.0% Limits: 70-130% " 09/27/06 17:37</i>														
<i>Toluene-d8 96.5% 75-125% " "</i>														
<i>4-BFB 104% 75-125% " "</i>														

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Kortland Orr For Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/06/06 09:37

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6I28018

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6128018-BLK2)														
Extracted: 09/28/06 09:23														
Acenaphthene	EPA 8270C-HV1	ND	0.00271	0.100	ug/l	1x	-	-	-	-	-	-	10/03/06 18:02	
Acenaphthylene	*	ND	0.00252	0.100	*	*	-	-	-	-	-	-	*	
Anthracene	*	ND	0.00284	0.100	*	*	-	-	-	-	-	-	*	
Benzo (a) anthracene	*	ND	0.00158	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (a) pyrene	*	ND	0.00315	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (b) fluoranthene	*	ND	0.00206	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (k) fluoranthene	*	ND	0.00186	0.0100	*	*	-	-	-	-	-	-	*	
Benzo (ghi) perylene	*	ND	0.00296	0.100	*	*	-	-	-	-	-	-	*	
Chrysene	*	ND	0.00188	0.0100	*	*	-	-	-	-	-	-	*	
Dibenz (a,h) anthracene	*	ND	0.00250	0.0100	*	*	-	-	-	-	-	-	*	
Fluoranthene	*	ND	0.00196	0.100	*	*	-	-	-	-	-	-	*	
Fluorene	*	ND	0.00357	0.100	*	*	-	-	-	-	-	-	*	
Indeno (1,2,3-cd) pyrene	*	ND	0.00246	0.0100	*	*	-	-	-	-	-	-	*	
1-Methylnaphthalene	*	ND	0.00223	0.100	*	*	-	-	-	-	-	-	*	
2-Methylnaphthalene	*	ND	0.00228	0.100	*	*	-	-	-	-	-	-	*	
Naphthalene	*	ND	0.00419	0.100	*	*	-	-	-	-	-	-	*	
Phenanthrene	*	ND	0.00259	0.100	*	*	-	-	-	-	-	-	*	
Pyrene	*	ND	0.00244	0.100	*	*	-	-	-	-	-	-	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 102% Limits: 20-125% * 10/03/06 18:02														
1-Methylnaphthalene-d10 124% 39-125% *														

LCS (6I28018-BS2)

Extracted: 09/28/06 09:23

Acenaphthene	EPA 8270C-HV1	17.6	0.0271	1.00	ug/l	10x	-	20.0	88.0%	(44-125)	-	-	10/04/06 18:00
Acenaphthylene	*	17.0	0.0252	1.00	*	*	-	*	85.0%	(51-125)	-	-	*
Anthracene	*	17.8	0.0284	1.00	*	*	-	*	89.0%	(50-125)	-	-	*
Benzo (a) anthracene	*	18.3	0.0158	0.100	*	*	-	*	91.5%	*	-	-	*
Benzo (a) pyrene	*	18.4	0.0315	0.100	*	*	-	*	92.0%	(47-125)	-	-	*
Benzo (b) fluoranthene	*	17.3	0.0206	0.100	*	*	-	*	86.5%	(50-125)	-	-	*
Benzo (k) fluoranthene	*	19.5	0.0186	0.100	*	*	-	*	97.5%	(46-125)	-	-	*
Benzo (ghi) perylene	*	19.2	0.0296	1.00	*	*	-	*	96.0%	(49-125)	-	-	*
Chrysene	*	17.4	0.0188	0.100	*	*	-	*	87.0%	(53-125)	-	-	*
Dibenz (a,h) anthracene	*	17.8	0.0250	0.100	*	*	-	*	89.0%	(47-125)	-	-	*
Fluoranthene	*	18.6	0.0196	1.00	*	*	-	*	93.0%	(55-125)	-	-	*
Fluorene	*	16.2	0.0357	1.00	*	*	-	*	81.0%	(52-125)	-	-	*
Indeno (1,2,3-cd) pyrene	*	18.7	0.0246	0.100	*	*	-	*	93.5%	(49-125)	-	-	*
1-Methylnaphthalene	*	15.8	0.0223	1.00	*	*	-	*	79.0%	(37-125)	-	-	*
2-Methylnaphthalene	*	16.3	0.0228	1.00	*	*	-	*	81.5%	(40-125)	-	-	*
Naphthalene	*	17.0	0.0419	1.00	*	*	-	*	85.0%	(42-125)	-	-	*

TestAmerica - Seattle, WA

Kortland Orr

Kortland Orr For Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/06/06 09:37

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

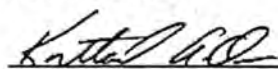
QC Batch: 6128018

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6128018-BS2)														
Extracted: 09/28/06 09:23														
Phenanthrene	EPA 8270C-HVI	16.7	0.0259	1.00	ug/l	10x	—	20.0	83.5%	(47-125)	—	—	10/04/06 18:00	
Pyrene	"	17.1	0.0244	1.00	"	"	—	"	85.5%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 82.3%		Limits: 20-125%	"								10/04/06 18:00	
1-Methylnaphthalene-d10		73.7%		39-125%	"								"	

LCS Dup (6128018-BSD2)														
Extracted: 09/28/06 09:23														
Acenaphthene	EPA 8270C-HVI	17.9	0.0271	1.00	ug/l	10x	—	20.0	89.5%	(44-125)	1.69%	(35)	10/04/06 18:34	
Acenaphthylene	"	17.3	0.0252	1.00	"	"	—	"	86.5%	(51-125)	1.75%	"	"	
Anthracene	"	18.0	0.0284	1.00	"	"	—	"	90.0%	(50-125)	1.12%	"	"	
Benzo (a) anthracene	"	19.0	0.0158	0.100	"	"	—	"	95.0%	"	3.75%	"	"	
Benzo (a) pyrene	"	18.2	0.0315	0.100	"	"	—	"	91.0%	(47-125)	1.09%	"	"	
Benzo (b) fluoranthene	"	17.3	0.0206	0.100	"	"	—	"	86.5%	(50-125)	0.00%	"	"	
Benzo (k) fluoranthene	"	18.8	0.0186	0.100	"	"	—	"	94.0%	(46-125)	3.66%	"	"	
Benzo (ghi) perylene	"	19.8	0.0296	1.00	"	"	—	"	99.0%	(49-125)	3.08%	"	"	
Chrysene	"	17.5	0.0188	0.100	"	"	—	"	87.5%	(53-125)	0.573%	"	"	
Dibenz (a,h) anthracene	"	18.3	0.0250	0.100	"	"	—	"	91.5%	(47-125)	2.77%	"	"	
Fluoranthene	"	18.0	0.0196	1.00	"	"	—	"	90.0%	(55-125)	3.28%	"	"	
Fluorene	"	16.8	0.0357	1.00	"	"	—	"	84.0%	(52-125)	3.64%	"	"	
Indeno (1,2,3-cd) pyrene	"	19.3	0.0246	0.100	"	"	—	"	96.5%	(49-125)	3.16%	"	"	
1-Methylnaphthalene	"	16.5	0.0223	1.00	"	"	—	"	82.5%	(37-125)	4.33%	"	"	
2-Methylnaphthalene	"	22.0	0.0228	1.00	"	"	—	"	110%	(40-125)	29.8%	"	"	
Naphthalene	"	17.0	0.0419	1.00	"	"	—	"	85.0%	(42-125)	0.00%	"	"	
Phenanthrene	"	16.8	0.0259	1.00	"	"	—	"	84.0%	(47-125)	0.597%	"	"	
Pyrene	"	17.5	0.0244	1.00	"	"	—	"	87.5%	"	2.31%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 77.3%		Limits: 20-125%	"								10/04/06 18:34	
1-Methylnaphthalene-d10		99.7%		39-125%	"								"	

TestAmerica - Seattle, WA


Kortland Orr For Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: **BN050-19390-220**
Project Manager: **Stephen Howard**

Report Created:
10/06/06 09:37

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6127067 Water Preparation Method: General Preparation

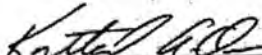
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6127067-DUP1)							QC Source: BP10737-01		Extracted: 09/27/06 19:00					
pH	EPA 150.1	7.61	—		pH Units	1x	7.59	—	—	—	0.263% (10)		09/27/06 19:15	

QC Batch: 6128041 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6128041-BLK1)							Extracted: 09/28/06 14:30							
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	09/28/06 14:30	
LCS (6128041-BS1)							Extracted: 09/28/06 14:30							
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.3	100%	(90-110)	—	—	09/28/06 14:30	
Duplicate (6128041-DUP1)							QC Source: BP10737-01		Extracted: 09/28/06 14:30					
Turbidity	EPA 180.1	4.80	—	1.00	NTU	1x	4.80	—	—	—	0.00% (20)		09/28/06 14:30	

TestAmerica - Seattle, WA

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Kortland Orr For Kate Haney, Project Manager



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/06/06 09:37

Notes and Definitions

Report Specific Notes:

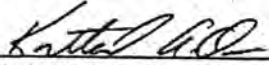
J - Estimated value.

Laboratory Reporting Conventions:

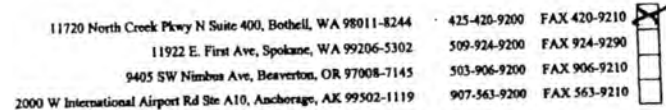
- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have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

TestAmerica - Seattle, WA

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


Kortland Orr For Kate Haney, Project Manager





Work Order #: BPI0737

[illegible]

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

Letter of Transmittal

TO: Chris Smith, Washington Dept of Ecology DATE: November 15, 2006
RE: BNSF Skykomish Cleanup Site Discharge Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	Description
1	November 15, 2006	BNSF Skykomish Cleanup Site (WA-0032123) Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit _____ Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit _____ Copies for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Return _____ Corrected Prints
☐ For Review & Comment ☐ Other: _____

Remarks:

Attached is the Discharge Monitoring Report for the October 2006 monitoring period.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in black ink, appearing to read "Diann Strom", is written over a horizontal line.

Diann Strom, EMS Project Coordinator

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology
Bruce Sheppard, BNSF
Halal Voges, RETEC
Dennis Metz, RETEC
RETEC file

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A

SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123

001

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2004	10	01		2006	10	31

NOTE: Read instructions before completing this form.

Discharge Location

Lat 47° 42' 37" N

Long 121° 21' 44" W

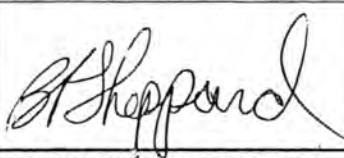
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	269	GPM	*****	*****	*****	***	0	cont	Meter
	Permit Requirement	*****	500		*****	*****	*****			CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	328	GPM	*****	*****	*****	***	0	cont	Meter
	Permit Requirement	*****	500		*****	*****	*****			CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****	ND	mg/L	0	7/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.1			07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****	NO	YES/NO	0	7/7	Visual
	Permit Requirement	*****	*****		*****	*****	REPORT			07/07	VISUAL
pH	Sample Measurement	*****	*****	***	6.84	*****	7.73	STD. UNIT	0	1/7	Grab
	Permit Requirement	*****	*****		6.5	*****	8.5			01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***	10.64	*****	*****	mg/L	0	1/7	Grab
	Permit Requirement	*****	*****		8	*****	*****			01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****	1.20	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035

AREA NUMBER CODE

DATE

2006 11 14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

ND= Not detected above method reporting limit (MRL)

Attachment A Chitosan Acetate Explanation
Attachment B Laboratory Analytical Results
Attachment C Organic and Inorganic Data Verification Report

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123
PERMIT NUMBER
001
DISCHARGE NUMBER

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

MONITORING PERIOD
FROM
YEAR MO DAY TO YEAR MO DAY
2006 10 01 2006 10 31

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	REPORT		*****	*****	*****				
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	Grab
	Permit Requirement	*****	5*		*****	*****	*****				
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	1.2				
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	100				
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****	226	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	REPORT				
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	208				
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	12.5				

NAME/TITLE PRINCIPAL EXECUTIVE
OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL
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PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY
RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION
SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE,
ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE
SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR
KNOWING VIOLATIONS.

B. Sheppard
SIGNATURE OF PRINCIPAL
EXECUTIVE OFFICER OR
AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER
CODE

DATE

2006 11 14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

ND - Not Detected above method reporting limit (MRL)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

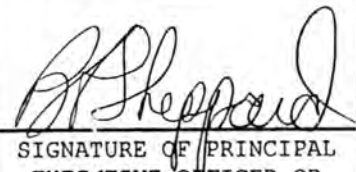
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2006	10	01		2006	10	31

NOTE: Read instructions before completing this form.

Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	3.86	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	360			01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	0.00909	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	2400			01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	640			01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	0.0226	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	160			01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	0.0056	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	480			01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>Bruce Sheppard,</u> <u>Manager Environmental Remediation</u> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(206) 625-6035 AREA NUMBER CODE	2006 11 14 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TR - MEANS TOTAL RECOVERABLE

ND = Not detected above method reporting limit (MRL)

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2006	10	01		2006	10	31

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
INDENO (1, 2, 3-cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	643			01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	Grab
	Permit Requirement	*****	*****		*****	*****	90.2			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard,
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

B. Sheppard
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

206 1625-6035
AREA NUMBER CODE

DATE

2006 11 19
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ND = Not detected above method reporting limit (MRL)

Attachment A

Chitosan Acetate Explanation

Chitosan acetate was not tested for on October 2, 6, 8, 17, 23, and 24. On October 2 and 6, chitosan was not tested for because the system was down for sump relocation and tank cleaning, respectively. On October 23, 2006, the chitosan box 1 for GAC1 was permanently discontinued. On October 24, 2006 chitosan was not recorded because the system was down. Chitosan was inadvertently not tested on October 8 and 17, 2006. After October 25, 2006, the chitosan service was permanently discontinued.

Attachment B
Laboratory Analytical Results

October 31, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 10/04/06 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 10/31/06
14:28.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPJ0080	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/31/06 14:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-NPDES-EFF-100406	BPJ0080-01	Water	10/04/06 11:40	10/04/06 15:00
SKY-NPDES-INF-100406	BPJ0080-02	Water	10/04/06 11:25	10/04/06 15:00
SKY-NPDES-TB-100406	BPJ0080-03	Water	10/04/06 00:00	10/04/06 15:00
SKY-NPDES-BKGD-100406	BPJ0080-04	Water	10/04/06 11:05	10/04/06 15:00
SKY-NPDES-MID-100406	BPJ0080-05	Water	10/04/06 11:28	10/04/06 15:00
SKY-TSS1-100406	BPJ0080-06	Water	10/04/06 09:00	10/04/06 15:00
SKY-TSS2-100306	BPJ0080-07	Water	10/03/06 15:15	10/04/06 15:00
SKY-TSS3-100306	BPJ0080-08	Water	10/03/06 17:45	10/04/06 15:00
SKY-TSS4-100406	BPJ0080-09	Water	10/04/06 11:15	10/04/06 15:00

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/31/06 14:28

Analytical Case Narrative
TestAmerica - Seattle, WA

BPJ0080

SAMPLE RECEIPT

The samples were received October 4th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 11.9 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA 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 the report.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 10/31/06 14:28
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0080-01 (SKY-NPDES-EFF-100406)		Water		Sampled: 10/04/06 11:40						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0381	0.238	mg/l	1x	6J05057	10/05/06 17:33	10/15/06 16:19	
Lube Oil Range Hydrocarbons	"	ND	0.0857	0.476	"	"	"	"	"	
Surrogate(s): 2-FBP			102%		53 - 125 %	"				"
Octacosane			96.6%		68 - 125 %	"				"
BPJ0080-02 (SKY-NPDES-INF-100406)		Water		Sampled: 10/04/06 11:25						
Diesel Range Hydrocarbons	NWTPH-Dx	0.155	0.0385	0.240	mg/l	1x	6J05057	10/05/06 17:33	10/15/06 16:50	J
Lube Oil Range Hydrocarbons	"	ND	0.0865	0.481	"	"	"	"	"	
Surrogate(s): 2-FBP			96.2%		53 - 125 %	"				"
Octacosane			89.6%		68 - 125 %	"				"
BPJ0080-05 (SKY-NPDES-MID-100406)		Water		Sampled: 10/04/06 11:28						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0377	0.236	mg/l	1x	6J05057	10/05/06 17:33	10/15/06 19:20	
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			89.8%		53 - 125 %	"				"
Octacosane			80.9%		68 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/31/06 14:28
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Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0080-01 (SKY-NPDES-EFF-100406)		Water				Sampled: 10/04/06 11:40				
Arsenic	EPA 200.8	0.00139	0.000430	0.00100	mg/l	1x	6J05022	10/05/06 10:42	10/06/06 22:03	
Lead	"	ND	0.000140	0.00100	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 10/31/06 14:28
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0080-01 (SKY-NPDES-EFF-100406) Water Sampled: 10/04/06 11:40										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J09043	10/09/06 15:31	10/09/06 20:27	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
<i>Surrogate(s):</i>										
<i>1,2-DCA-d4</i>			96.5%		70 - 130 %	"				"
<i>Toluene-d8</i>			99.0%		75 - 125 %	"				"
<i>4-BFB</i>			102%		75 - 125 %	"				"
BPJ0080-03 (SKY-NPDES-TB-100406) Water Sampled: 10/04/06 00:00										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J09043	10/09/06 15:31	10/09/06 20:01	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
<i>Surrogate(s):</i>										
<i>1,2-DCA-d4</i>			97.0%		70 - 130 %	"				"
<i>Toluene-d8</i>			99.0%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"

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1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

10/31/06 14:28

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0080-01 (SKY-NPDES-EFF-100406)		Water		Sampled: 10/04/06 11:40						
Acenaphthene	EPA 8270C-HVI	ND	0.00256	0.0943	ug/l	1x	6/11036	10/11/06 11:39	10/27/06 20:22	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	ND	0.00268	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	ND	0.00395	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	0.00244	0.0943	"	"	"	"	"	
Pyrene	"	ND	0.00230	0.0943	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			57.1%		20 - 125 %	"				"
1-Methylnaphthalene-d10			91.4%		39 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 10/31/06 14:28

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0080-01 (SKY-NPDES-EFF-100406)		Water		Sampled: 10/04/06 11:40						
pH	EPA 150.1	7.35	—		pH Units	1x	6J05033	10/04/06 18:50	10/04/06 18:50	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6J05030	10/04/06 17:15	10/04/06 17:15	
BPJ0080-04 (SKY-NPDES-BKGD-100406)		Water		Sampled: 10/04/06 11:05						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6J05030	10/04/06 17:15	10/04/06 17:15	
BPJ0080-06 (SKY-TSS1-100406)		Water		Sampled: 10/04/06 09:00						
Total Suspended Solids	EPA 160.2	ND	—	4.0	mg/l	1x	6J07006	10/07/06 18:41	10/07/06 18:42	
BPJ0080-07 (SKY-TSS2-100306)		Water		Sampled: 10/03/06 15:15						
Total Suspended Solids	EPA 160.2	ND	—	4.0	mg/l	1x	6J07006	10/07/06 18:41	10/07/06 18:42	
BPJ0080-08 (SKY-TSS3-100306)		Water		Sampled: 10/03/06 17:45						
Total Suspended Solids	EPA 160.2	ND	—	4.0	mg/l	1x	6J07006	10/07/06 18:41	10/07/06 18:42	
BPJ0080-09 (SKY-TSS4-100406)		Water		Sampled: 10/04/06 11:15						
Total Suspended Solids	EPA 160.2	66	—	4.0	mg/l	1x	6J07006	10/07/06 18:41	10/07/06 18:42	

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 10/31/06 14:28
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J05057 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 10/05/06 17:33														
Blank (6J05057-BLK1)														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	10/13/06 18:18	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 98.8%		Limits: 53-125%	"								10/13/06 18:18	
Octacosane		89.6%		68-125%	"								"	
Extracted: 10/05/06 17:33														
LCS (6J05057-BS1)														
Diesel Range Hydrocarbons	NWTPH-Dx	2.12	0.0400	0.250	mg/l	1x	--	2.00	106%	(61-132)	--	--	10/13/06 18:48	
Surrogate(s): 2-FBP		Recovery: 103%		Limits: 53-125%	"								10/13/06 18:48	
Octacosane		93.6%		68-125%	"								"	
Extracted: 10/05/06 17:33														
LCS Dup (6J05057-BSD1)														
Diesel Range Hydrocarbons	NWTPH-Dx	2.04	0.0400	0.250	mg/l	1x	--	2.00	102%	(61-132)	3.85%	(40)	10/13/06 19:18	
Surrogate(s): 2-FBP		Recovery: 98.0%		Limits: 53-125%	"								10/13/06 19:18	
Octacosane		94.0%		68-125%	"								"	

TestAmerica - Seattle, WA

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

10/31/06 14:28

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: **6J05022**

Water Preparation Method: **EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J05022-BLK1)														
								Extracted: 10/05/06 10:42						
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	--	--	--	--	--	--	10/06/06 20:30	
Lead	"	ND	0.000140	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6J05022-BS1)														
								Extracted: 10/05/06 10:42						
Arsenic	EPA 200.8	0.0810	0.000430	0.00100	mg/l	1x	--	0.0800	101%	(85-115)	--	--	10/06/06 20:36	
Lead	"	0.0773	0.000140	0.00100	"	"	--	"	96.6%	"	--	--	"	
Duplicate (6J05022-DUP1)														
QC Source: BPJ0091-01							Extracted: 10/05/06 10:42							
Arsenic	EPA 200.8	0.000970	0.000430	0.00100	mg/l	1x	0.00103	--	--	--	6.00%	(20)	10/06/06 20:53	J
Lead	"	ND	0.000140	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (6J05022-MS1)														
QC Source: BPJ0091-01							Extracted: 10/05/06 10:42							
Arsenic	EPA 200.8	0.0806	0.000430	0.00100	mg/l	1x	0.00103	0.0800	99.5%	(75-125)	--	--	10/06/06 20:42	
Lead	"	0.0754	0.000140	0.00100	"	"	ND	"	94.2%	"	--	--	"	
Matrix Spike (6J05022-MS2)														
QC Source: BPJ0035-01							Extracted: 10/05/06 10:42							
Arsenic	EPA 200.8	0.0800	0.000430	0.00100	mg/l	1x	0.000640	0.0800	99.2%	(75-125)	--	--	10/06/06 20:48	
Lead	"	0.0760	0.000140	0.00100	"	"	0.000250	"	94.7%	"	--	--	"	

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Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	10/31/06 14:28
Seattle, WA 98134	Project Manager: Stephen Howard	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6J09043	Water Preparation Method: EPA 5030B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 10/09/06 15:31														
Blank (6J09043-BLK1)														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	--	--	--	--	--	--	10/09/06 16:26	
Ethylbenzene	"	ND	0.125	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.127	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	0.298	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	96.0%	Limits:	70-130%	"							10/09/06 16:26	
	Toluene-d8		98.5%		75-125%	"							"	
	4-BFB		102%		75-125%	"							"	
Extracted: 10/09/06 15:31														
LCS (6J09043-BS1)														
Benzene	EPA 8260B	19.1	0.114	0.500	ug/l	1x	--	20.0	95.5%	(80-120)	--	--	10/09/06 15:35	
Ethylbenzene	"	19.3	0.125	0.500	"	"	--	"	96.5%	(75-125)	--	--	"	
Toluene	"	19.2	0.127	0.500	"	"	--	"	96.0%	"	--	--	"	
Total Xylenes	"	63.0	0.298	3.00	"	"	--	60.0	105%	"	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	96.0%	Limits:	70-130%	"							10/09/06 15:35	
	Toluene-d8		99.0%		75-125%	"							"	
	4-BFB		100%		75-125%	"							"	
Extracted: 10/09/06 15:31														
LCS Dup (6J09043-BS1)														
Benzene	EPA 8260B	20.2	0.114	0.500	ug/l	1x	--	20.0	101%	(80-120)	5.60%	(20)	10/09/06 16:01	
Ethylbenzene	"	20.5	0.125	0.500	"	"	--	"	102%	(75-125)	6.03%	"	"	
Toluene	"	20.6	0.127	0.500	"	"	--	"	103%	"	7.04%	"	"	
Total Xylenes	"	67.7	0.298	3.00	"	"	--	60.0	113%	"	7.19%	"	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	98.0%	Limits:	70-130%	"							10/09/06 16:01	
	Toluene-d8		100%		75-125%	"							"	
	4-BFB		98.5%		75-125%	"							"	

TestAmerica - Seattle, WA

Kate Haney

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1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 10/31/06 14:28

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6J11036 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J11036-BLK2)										Extracted: 10/11/06 11:39				
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	10/27/06 19:49	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	0.00900	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 60.0% Limits: 20-125% "														
1-Methylnaphthalene-d10 74.8% 39-125% "														

LCS (6J11036-BS2)

										Extracted: 10/11/06 11:39				
Acenaphthene	EPA 8270C-HVI	17.6	0.0271	1.00	ug/l	10x	--	20.0	88.0%	(44-125)	--	--	10/27/06 18:41	
Acenaphthylene	"	18.0	0.0252	1.00	"	"	--	"	90.0%	(51-125)	--	--	"	
Anthracene	"	18.2	0.0284	1.00	"	"	--	"	91.0%	(50-125)	--	--	"	
Benzo (a) anthracene	"	18.2	0.0158	0.100	"	"	--	"	91.0%	"	--	--	"	
Benzo (a) pyrene	"	16.8	0.0315	0.100	"	"	--	"	84.0%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	16.5	0.0206	0.100	"	"	--	"	82.5%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	16.2	0.0186	0.100	"	"	--	"	81.0%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	16.2	0.0296	1.00	"	"	--	"	81.0%	(49-125)	--	--	"	
Chrysene	"	17.8	0.0188	0.100	"	"	--	"	89.0%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	16.4	0.0250	0.100	"	"	--	"	82.0%	(47-125)	--	--	"	
Fluoranthene	"	18.7	0.0196	1.00	"	"	--	"	93.5%	(55-125)	--	--	"	
Fluorene	"	18.0	0.0357	1.00	"	"	--	"	90.0%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	16.4	0.0246	0.100	"	"	--	"	82.0%	(49-125)	--	--	"	
1-Methylnaphthalene	"	15.2	0.0223	1.00	"	"	--	"	76.0%	(37-125)	--	--	"	
2-Methylnaphthalene	"	16.2	0.0228	1.00	"	"	--	"	81.0%	(40-125)	--	--	"	
Naphthalene	"	15.3	0.0419	1.00	"	"	--	"	76.5%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	10/31/06 14:28
Seattle, WA 98134	Project Manager: Stephen Howard	

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J11036 **Water Preparation Method:** EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 10/11/06 11:39														
LCS (6J11036-BS2)														
Phenanthrene	EPA 8270C-HV1	17.0	0.0259	1.00	ug/l	10x	--	20.0	85.0%	(47-125)	--	--	10/27/06 18:41	
Pyrene	"	15.0	0.0244	1.00	"	"	--	"	75.0%	"	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 73.3%		Limit: 20-125%										
1-Methylnaphthalene-d10		89.5%		39-125%										

Extracted: 10/11/06 11:39														
LCS Dup (6J11036-BS2)														
Acenaphthene	EPA 8270C-HV1	16.4	0.0271	1.00	ug/l	10x	--	20.0	82.0%	(44-125)	7.06%	(35)	10/27/06 19:15	
Acenaphthylene	"	16.7	0.0252	1.00	"	"	--	"	83.5%	(51-125)	7.48%	"	"	
Anthracene	"	17.2	0.0284	1.00	"	"	--	"	86.0%	(50-125)	5.65%	"	"	
Benzo (a) anthracene	"	18.6	0.0158	0.100	"	"	--	"	93.0%	"	2.17%	"	"	
Benzo (a) pyrene	"	16.7	0.0315	0.100	"	"	--	"	83.5%	(47-125)	0.597%	"	"	
Benzo (b) fluoranthene	"	17.1	0.0206	0.100	"	"	--	"	85.5%	(50-125)	3.57%	"	"	
Benzo (k) fluoranthene	"	15.9	0.0186	0.100	"	"	--	"	79.5%	(46-125)	1.87%	"	"	
Benzo (ghi) perylene	"	16.8	0.0296	1.00	"	"	--	"	84.0%	(49-125)	3.64%	"	"	
Chrysene	"	17.9	0.0188	0.100	"	"	--	"	89.5%	(53-125)	0.560%	"	"	
Dibenz (a,h) anthracene	"	17.1	0.0250	0.100	"	"	--	"	85.5%	(47-125)	4.18%	"	"	
Fluoranthene	"	18.2	0.0196	1.00	"	"	--	"	91.0%	(55-125)	2.71%	"	"	
Fluorene	"	16.4	0.0357	1.00	"	"	--	"	82.0%	(52-125)	9.30%	"	"	
Indeno (1,2,3-cd) pyrene	"	17.4	0.0246	0.100	"	"	--	"	87.0%	(49-125)	5.92%	"	"	
1-Methylnaphthalene	"	14.2	0.0223	1.00	"	"	--	"	71.0%	(37-125)	6.80%	"	"	
2-Methylnaphthalene	"	14.6	0.0228	1.00	"	"	--	"	73.0%	(40-125)	10.4%	"	"	
Naphthalene	"	14.2	0.0419	1.00	"	"	--	"	71.0%	(42-125)	7.46%	"	"	
Phenanthrene	"	16.6	0.0259	1.00	"	"	--	"	83.0%	(47-125)	2.38%	"	"	
Pyrene	"	15.0	0.0244	1.00	"	"	--	"	75.0%	"	0.00%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 76.2%		Limit: 20-125%										
1-Methylnaphthalene-d10		87.5%		39-125%										

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 10/31/06 14:28

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6J05030 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J05030-BLK1)										Extracted: 10/04/06 17:15				
Turbidity	EPA 180.1	ND	---	1.00	NTU	1x	--	--	--	--	--	--	10/04/06 17:15	
LCS (6J05030-BS1)										Extracted: 10/04/06 17:15				
Turbidity	EPA 180.1	14.3	---	1.00	NTU	1x	--	14.3	100%	(90-110)	--	--	10/04/06 17:15	
Duplicate (6J05030-DUP1)										QC Source: BPJ0080-01				
Turbidity	EPA 180.1	ND	---	1.00	NTU	1x	ND	--	--	--	0.00% (20)	--	10/04/06 17:15	

QC Batch: 6J05033 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6J05033-DUP1)										QC Source: BPJ0076-02				
pH	EPA 150.1	6.82	---		pH Units	1x	6.82	--	--	--	0.00% (10)	--	10/05/06 18:50	

QC Batch: 6J07006 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J07006-BLK1)										Extracted: 10/07/06 18:41				
Total Suspended Solids	EPA 160.2	ND	---	4.0	mg/l	1x	--	--	--	--	--	--	10/07/06 18:42	
Duplicate (6J07006-DUP1)										QC Source: BPJ0080-09				
Total Suspended Solids	EPA 160.2	51	---	4.0	mg/l	1x	66	--	--	--	25.6% (25)	--	10/07/06 18:42	Q-07

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
10/31/06 14:28

Notes and Definitions

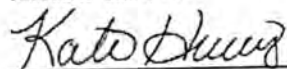
Report Specific Notes:

- J - Estimated value.
- 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.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA



Kate Hancy, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order #: **BPJ 0080**

CLIENT: BNSF Railway Company		INVOICE TO: BNSF Railway	
REPORT TO: Steve Howard - RETEC		P.O. NUMBER: TT0100-G06	
ADDRESS: 1011 SW Klickitat Way, Ste. #207 Seattle, WA 98134			
PHONE: 206-624-9349 FAX: 206-624-2839			
PROJECT NAME: Skykomish NPDES		PRESERVATIVE	
PROJECT NUMBER: BNDSP-19390-224		REQUESTED ANALYSES	
SAMPLED BY:			

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MUTM-BX	NO SG	PAH	BTEX	Turbidity	pH	As, Pb	TSS	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
SKY-NPDES-EFF-100406	10-4-06 1140	X	X	X	X	X	X	X		W	9		01
SKY-NPDES-INF-100406	10-4-06 1125	X								W	2		02
SKY-NPDES-TB-100406	10-4-06			X						W	1		03
SKY-NPDES-BKGD-100406	10-4-06 1105				X					W	1		04
SKY-NPDES-MID-100406	10-4-06 1128	X								W	2		05
SKY-TSS1-100406	10-04-06 0900							X		W	1		06
SKY-TSS2-100306	10-03-06 1515							X		W	1		07
SKY-TSS3-100306	10-03-06 1745							X		W	1		08
SKY-TSS4-100406	10-04-06 1115							X		W	1		09

RELEASED BY: Dennis Metz	DATE: 10-4-06	RECEIVED BY: Ken Dawson	DATE: 10-4-06
PRINT NAME: Dennis Metz	TIME: 1345	PRINT NAME: Ken Dawson	TIME: 1145 AM
RELEASED BY: Tom Blankinship	DATE: 10-4-06	RECEIVED BY: Tom Blankinship	DATE: 10/4/06
PRINT NAME: Tom Blankinship	TIME: 1500	PRINT NAME: Tom Blankinship	TIME: 1500

ADDITIONAL REMARKS:

TEMP: **11.9** W/C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

November 07, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

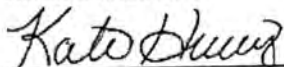
RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 10/11/06 15:20.
The following list is a summary of the Work Orders contained in this report, generated on 11/07/06
17:05.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPJ0201	BNSF-Skykomish Levee Water	BN050-19390-220

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/07/06 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-101106	BPJ0201-01	Water	10/11/06 10:20	10/11/06 15:20
SKY-INF-101106	BPJ0201-02	Water	10/11/06 10:10	10/11/06 15:20
SKY-TB-101106	BPJ0201-03	Water	10/11/06 10:00	10/11/06 15:20
SKY-BKGD-101106	BPJ0201-04	Water	10/11/06 09:50	10/11/06 15:20
SKY-MID-101106	BPJ0201-05	Water	10/11/06 10:15	10/11/06 15:20

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/07/06 17:05

Analytical Case Narrative

TestAmerica - Seattle, WA

BPJ0201

SAMPLE RECEIPT

The samples were received October 11th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 10.6 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

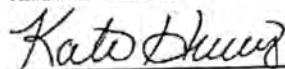
Total Metals by EPA 200 Series Methods: No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA 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 the report.

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:05

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0201-01 (SKY-EFF-101106)		Water		Sampled: 10/11/06 10:20						
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0381	0.238	mg/l	1x	6J13021	10/13/06 10:20	11/02/06 20:30	
Lube Oil Range Hydrocarbons	"	ND	0.0857	0.476	"	"	"	"	"	
Surrogate(s): 2-FBP			109%		53 - 125 %	"				
Octacosane			98.3%		68 - 125 %	"				
BPJ0201-02 (SKY-INF-101106)		Water		Sampled: 10/11/06 10:10						
Diesel Range Hydrocarbons	NWTPH-Dx	0.147	0.0377	0.236	mg/l	1x	6J13021	10/13/06 10:20	11/02/06 21:00	J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP			108%		53 - 125 %	"				
Octacosane			102%		68 - 125 %	"				
BPJ0201-05 (SKY-MID-101106)		Water		Sampled: 10/11/06 10:15						
Diesel Range Hydrocarbons	NWTPH-Dx	0.0573	0.0383	0.240	mg/l	1x	6J13021	10/13/06 10:20	11/02/06 21:29	J
Lube Oil Range Hydrocarbons	"	ND	0.0865	0.481	"	"	"	"	"	
Surrogate(s): 2-FBP			105%		53 - 125 %	"				
Octacosane			100%		68 - 125 %	"				

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/07/06 17:05

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0201-01 (SKY-EFF-101106)		Water		Sampled: 10/11/06 10:20						
Arsenic	EPA 200.8	0.00134	0.000430	0.00100	mg/l	1x	6/16013	10/16/06 09:29	10/17/06 10:42	
Lead	*	ND	0.000140	0.00100	*	*	*	*	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:05

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0201-01 (SKY-EFF-101106)		Water							Sampled: 10/11/06 10:20	
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J16011	10/16/06 15:13	10/17/06 01:10	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4	92.5%		70 - 130 %	"				"	
	Toluene-d8	97.5%		75 - 125 %	"				"	
	4-BFB	100%		75 - 125 %	"				"	
BPJ0201-03 (SKY-TB-101106)		Water							Sampled: 10/11/06 10:00	
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J16011	10/16/06 15:13	10/16/06 23:24	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4	93.5%		70 - 130 %	"				"	
	Toluene-d8	95.0%		75 - 125 %	"				"	
	4-BFB	101%		75 - 125 %	"				"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/07/06 17:05

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0201-01 (SKY-EFF-101106)		Water		Sampled: 10/11/06 10:20						
Acenaphthene	EPA 8270C-HV1	ND	0.00236	0.0943	ug/l	1x	6J13023	10/13/06 10:23	11/06/06 16:10	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	0.00915	0.00268	0.0943	"	"	"	"	"	J
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	J
2-Methylnaphthalene	"	0.00657	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	ND	0.00395	0.0943	"	"	"	"	"	J
Phenanthrene	"	0.0113	0.00244	0.0943	"	"	"	"	"	
Pyrene	"	ND	0.00230	0.0943	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			79.1%		20 - 125 %	"				

TestAmerica - Seattle, WA

Kate Haney
Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:05
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Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0201-01 (SKY-EFF-101106)		Water		Sampled: 10/11/06 10:20						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6/11064	10/11/06 17:52	10/11/06 17:52	
BPJ0201-01RE1 (SKY-EFF-101106)		Water		Sampled: 10/11/06 10:20						
pH	EPA 150.1	6.84	—		pH Units	1x	6/13063	10/13/06 16:10	10/13/06 16:10	HT-1
BPJ0201-04 (SKY-BKGD-101106)		Water		Sampled: 10/11/06 09:50						
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6/11064	10/11/06 17:52	10/11/06 17:52	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/07/06 17:05

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J13021

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J13021-BLK1)														
Extracted: 10/13/06 10:20														
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	11/01/06 20:24	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP Recovery: 100% Limits: 53-125% "														
Octacosane 98.8% 68-125% "														
LCS (6J13021-BS1)														
Extracted: 10/13/06 10:20														
Diesel Range Hydrocarbons	NWTPH-Dx	1.86	0.0400	0.250	mg/l	1x	--	2.00	93.0%	(61-132)	--	--	11/01/06 20:53	
Surrogate(s): 2-FBP Recovery: 113% Limits: 53-125% "														
Octacosane 98.8% 68-125% "														
LCS Dup (6J13021-BSD1)														
Extracted: 10/13/06 10:20														
Diesel Range Hydrocarbons	NWTPH-Dx	1.82	0.0400	0.250	mg/l	1x	--	2.00	91.0%	(61-132)	2.17%	(40)	11/01/06 21:22	
Surrogate(s): 2-FBP Recovery: 105% Limits: 53-125% "														
Octacosane 98.4% 68-125% "														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 11/07/06 17:05

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6J16013

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J16013-BLK1)														
								Extracted: 10/16/06 09:29						
Lead	EPA 200.8	ND	0.000140	0.00100	mg/l	1x	--	--	--	--	--	--	10/17/06 09:02	
Arsenic	"	ND	0.000430	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6J16013-BS1)														
								Extracted: 10/16/06 09:29						
Arsenic	EPA 200.8	0.0823	0.000430	0.00100	mg/l	1x	--	0.0800	103%	(85-115)	--	--	10/17/06 09:25	
Lead	"	0.0814	0.000140	0.00100	"	"	--	"	102%	"	--	--	"	
Duplicate (6J16013-DUP1)														
								QC Source: BPJ0233-01		Extracted: 10/16/06 09:29				
Arsenic	EPA 200.8	0.000500	0.000430	0.00100	mg/l	1x	0.000660	--	--	--	27.6%	(20)	10/17/06 09:08	RP-4, J
Lead	"	ND	0.000140	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (6J16013-MS1)														
								QC Source: BPJ0233-01		Extracted: 10/16/06 09:29				
Arsenic	EPA 200.8	0.0791	0.000430	0.00100	mg/l	1x	0.000660	0.0800	98.0%	(75-125)	--	--	10/17/06 09:31	
Lead	"	0.0842	0.000140	0.00100	"	"	ND	"	105%	"	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:05
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J16011	Water Preparation Method: EPA 5030B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J16011-BLK1)														
Extracted: 10/16/06 15:13														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	10/16/06 22:31	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	96.0%	Limits:	70-130%	"							10/16/06 22:31	
	Toluene-d8		95.5%		75-125%	"							"	
	4-BFB		102%		75-125%	"							"	
LCS (6J16011-BS1)														
Extracted: 10/16/06 15:13														
Benzene	EPA 8260B	19.1	0.114	0.500	ug/l	1x	—	20.0	95.5%	(80-120)	—	—	10/16/06 21:38	
Ethylbenzene	"	19.3	0.125	0.500	"	"	—	"	96.5%	(75-125)	—	—	"	
Toluene	"	19.4	0.127	0.500	"	"	—	"	97.0%	"	—	—	"	
Total Xylenes	"	63.3	0.298	3.00	"	"	—	60.0	106%	"	—	—	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	92.0%	Limits:	70-130%	"							10/16/06 21:38	
	Toluene-d8		96.5%		75-125%	"							"	
	4-BFB		98.5%		75-125%	"							"	
LCS Dup (6J16011-BSD1)														
Extracted: 10/16/06 15:13														
Benzene	EPA 8260B	19.2	0.114	0.500	ug/l	1x	—	20.0	96.0%	(80-120)	0.522%	(20)	10/16/06 22:04	
Ethylbenzene	"	19.0	0.125	0.500	"	"	—	"	95.0%	(75-125)	1.57%	"	"	
Toluene	"	19.1	0.127	0.500	"	"	—	"	95.5%	"	1.56%	"	"	
Total Xylenes	"	62.1	0.298	3.00	"	"	—	60.0	104%	"	1.91%	"	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	92.0%	Limits:	70-130%	"							10/16/06 22:04	
	Toluene-d8		95.5%		75-125%	"							"	
	4-BFB		100%		75-125%	"							"	

TestAmerica - Seattle, WA

Kate Haney
Kate Haney, Project Manager

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The RETEC Group, Inc.		Project Name:	BNSF-Skykomish Levee Water	Report Created: 11/07/06 17:05
1011 SW Klickitat Way, Suite 207		Project Number:	BN050-19390-220	
Seattle, WA 98134		Project Manager:	Stephen Howard	

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J13023	Water Preparation Method: EPA 3520C
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J13023-BLK2)										Extracted: 10/13/06 10:23				
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	11/06/06 15:48	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	0.00540	0.00284	0.100	"	"	--	--	--	--	--	--	"	J
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	0.00698	0.00228	0.100	"	"	--	--	--	--	--	--	"	J
Naphthalene	"	0.0209	0.00419	0.100	"	"	--	--	--	--	--	--	"	J
Phenanthrene	"	0.00968	0.00259	0.100	"	"	--	--	--	--	--	--	"	J
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery: 60.4%	Limits: 20-125%		"	11/06/06 15:48								
1-Methylnaphthalene-d10		85.1%	39-125%		"									

LCS (6J13023-BS2)										Extracted: 10/13/06 10:23				
Acenaphthene	EPA 8270C-HVI	16.3	0.0271	1.00	ug/l	10x	--	20.0	81.5%	(44-125)	--	--	11/06/06 17:03	
Acenaphthylene	"	17.0	0.0252	1.00	"	"	--	"	85.0%	(51-125)	--	--	"	
Anthracene	"	17.9	0.0284	1.00	"	"	--	"	89.5%	(50-125)	--	--	"	
Benzo (a) anthracene	"	17.8	0.0158	0.100	"	"	--	"	89.0%	"	--	--	"	
Benzo (a) pyrene	"	17.5	0.0315	0.100	"	"	--	"	87.5%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	16.6	0.0206	0.100	"	"	--	"	83.0%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	19.8	0.0186	0.100	"	"	--	"	99.0%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	18.7	0.0296	1.00	"	"	--	"	93.5%	(49-125)	--	--	"	
Chrysene	"	18.6	0.0188	0.100	"	"	--	"	93.0%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	18.5	0.0250	0.100	"	"	--	"	92.5%	(47-125)	--	--	"	
Fluoranthene	"	18.3	0.0196	1.00	"	"	--	"	91.5%	(55-125)	--	--	"	
Fluorene	"	16.3	0.0357	1.00	"	"	--	"	81.5%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	18.3	0.0246	0.100	"	"	--	"	91.5%	(49-125)	--	--	"	
1-Methylnaphthalene	"	15.3	0.0223	1.00	"	"	--	"	76.5%	(37-125)	--	--	"	
2-Methylnaphthalene	"	16.7	0.0228	1.00	"	"	--	"	83.5%	(40-125)	--	--	"	
Naphthalene	"	15.6	0.0419	1.00	"	"	--	"	78.0%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/07/06 17:05

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6J13023

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6J13023-BS2)														
Extracted: 10/13/06 10:23														
Phenanthrene	EPA 8270C-HVI	17.0	0.0259	1.00	ug/l	10x	--	20.0	85.0%	(47-125)	--	--	11/06/06 17:03	
Pyrene	*	18.4	0.0244	1.00	*	*	--	*	92.0%	*	--	--	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 82.2% Limits: 20-125% * 11/06/06 17:03														
1-Methylnaphthalene-d10 92.3% 39-125% *														

LCS Dup (6J13023-BSD2)

Extracted: 10/13/06 10:23

Acenaphthene	EPA 8270C-HVI	17.0	0.0271	1.00	ug/l	10x	--	20.0	85.0%	(44-125)	4.20%	(35)	11/06/06 17:36	
Acenaphthylene	*	17.6	0.0252	1.00	*	*	--	*	88.0%	(51-125)	3.47%	*	*	
Anthracene	*	19.0	0.0284	1.00	*	*	--	*	95.0%	(50-125)	5.96%	*	*	
Benzo (a) anthracene	*	18.5	0.0158	0.100	*	*	--	*	92.5%	*	3.86%	*	*	
Benzo (a) pyrene	*	18.6	0.0315	0.100	*	*	--	*	93.0%	(47-125)	6.09%	*	*	
Benzo (b) fluoranthene	*	19.9	0.0206	0.100	*	*	--	*	99.5%	(50-125)	18.1%	*	*	
Benzo (k) fluoranthene	*	18.4	0.0186	0.100	*	*	--	*	92.0%	(46-125)	7.33%	*	*	
Benzo (ghi) perylene	*	19.6	0.0296	1.00	*	*	--	*	98.0%	(49-125)	4.70%	*	*	
Chrysene	*	19.3	0.0188	0.100	*	*	--	*	96.5%	(53-125)	3.69%	*	*	
Dibenz (a,h) anthracene	*	19.2	0.0250	0.100	*	*	--	*	96.0%	(47-125)	3.71%	*	*	
Fluoranthene	*	19.4	0.0196	1.00	*	*	--	*	97.0%	(55-125)	5.84%	*	*	
Fluorene	*	16.9	0.0357	1.00	*	*	--	*	84.5%	(52-125)	3.61%	*	*	
Indeno (1,2,3-cd) pyrene	*	19.2	0.0246	0.100	*	*	--	*	96.0%	(49-125)	4.80%	*	*	
1-Methylnaphthalene	*	16.2	0.0223	1.00	*	*	--	*	81.0%	(37-125)	5.71%	*	*	
2-Methylnaphthalene	*	17.6	0.0228	1.00	*	*	--	*	88.0%	(40-125)	5.25%	*	*	
Naphthalene	*	16.3	0.0419	1.00	*	*	--	*	81.5%	(42-125)	4.39%	*	*	
Phenanthrene	*	17.8	0.0259	1.00	*	*	--	*	89.0%	(47-125)	4.60%	*	*	
Pyrene	*	18.9	0.0244	1.00	*	*	--	*	94.5%	*	2.68%	*	*	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 85.7% Limits: 20-125% * 11/06/06 17:36														
1-Methylnaphthalene-d10 93.8% 39-125% *														

TestAmerica - Seattle, WA

Kate Hancy

Kate Hancy, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:05
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6J11064 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J11064-BLK1)										Extracted: 10/11/06 17:52				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	10/11/06 17:52	
LCS (6J11064-BS1)										Extracted: 10/11/06 17:52				
Turbidity	EPA 180.1	14.4	—	1.00	NTU	1x	—	14.3	101%	(90-110)	—	—	10/11/06 17:52	
Duplicate (6J11064-DUP1)										QC Source: BPJ0201-01 Extracted: 10/11/06 17:52				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	0.00%	(20)	10/11/06 17:52	

QC Batch: 6J13063 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6J13063-DUP1)										QC Source: BPJ0201-01RE1 Extracted: 10/13/06 16:10				
pH	EPA 150.1	6.83	—		pH Units	1x	6.84	—	—	—	0.146%	(10)	10/13/06 16:10	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/07/06 17:05

Notes and Definitions

Report Specific Notes:

- HT-1 - Sample analysis performed past method-specified holding time.
- J - Estimated value.
- RP-4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



CHAIN OF CUSTODY REPORT

Work Order #: **BRJ 0201**

CLIENT: BNSF Railway Company		INVOICE TO: BNSF RAILWAY																											
REPORT TO: Steve Howard - RETEC		F.O. NUMBER: TT0100 - G06																											
ADDRESS: 1011 SW Klickitat Way, Ste #207 Seattle, WA 98134																													
PHONE: 206-624-9344 FAX: 206-624-2839																													
PROJECT NAME: Skykomish NPDES		PRESERVATIVE																											
PROJECT NUMBER: BN050-19390-220		REQUESTED ANALYSES																											
SAMPLED BY:		<table border="1"> <tr> <td>HCl</td> <td>—</td> <td>HCl</td> <td>—</td> <td>—</td> <td>NO3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		HCl	—	HCl	—	—	NO3																				
HCl	—	HCl	—	—	NO3																								
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MPH-DK No SG	PAH	BTEX	Turbidity	pH	As, Pb																						
SKY-NPDES-EFF-101106	10-11-06 / 1020	X	X	X	X	X	X																						
SKY-NPDES-INF-101106	10-11-06 / 1010	X																											
SKY-NPDES-TB-101106				X																									
SKY-NPDES-BKGD-101106	10-11-06 / 0950				X																								
SKY-NPDES-MID-101106	10-11-06 / 1015	X																											
RL's as requested on e-mail																													
<table border="1"> <tr> <td>RELEASED BY: Dennis Metz</td> <td>DATE: 10-11-06</td> <td>RECEIVED BY: J. P. [Signature]</td> <td>DATE: 10/11/06</td> </tr> <tr> <td>PRINT NAME: Dennis Metz</td> <td>TIME: 1410</td> <td>PRINT NAME: Cathy Cramble</td> <td>TIME: 15:20</td> </tr> <tr> <td>RELEASED BY:</td> <td>DATE:</td> <td>RECEIVED BY:</td> <td>DATE:</td> </tr> <tr> <td>PRINT NAME:</td> <td>TIME:</td> <td>PRINT NAME:</td> <td>TIME:</td> </tr> </table>														RELEASED BY: Dennis Metz	DATE: 10-11-06	RECEIVED BY: J. P. [Signature]	DATE: 10/11/06	PRINT NAME: Dennis Metz	TIME: 1410	PRINT NAME: Cathy Cramble	TIME: 15:20	RELEASED BY:	DATE:	RECEIVED BY:	DATE:	PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELEASED BY: Dennis Metz	DATE: 10-11-06	RECEIVED BY: J. P. [Signature]	DATE: 10/11/06																										
PRINT NAME: Dennis Metz	TIME: 1410	PRINT NAME: Cathy Cramble	TIME: 15:20																										
RELEASED BY:	DATE:	RECEIVED BY:	DATE:																										
PRINT NAME:	TIME:	PRINT NAME:	TIME:																										
ADDITIONAL REMARKS:																													

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses

☒ 7 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1

Petroleum Hydrocarbon Analyses

☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1

STD.

☐ OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
W	9		01
W	2		02
W	1		03
W	1		04
W	2		05

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

10-6 PAGE OF
w/ps

November 07, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 10/19/06 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 11/07/06 17:07.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPJ0405	BNSF-Skykomish Levee Water	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-101906	BPJ0405-01	Water	10/19/06 10:15	10/19/06 15:45
SKY-INF-101906	BPJ0405-02	Water	10/19/06 10:05	10/19/06 15:45
SKY-TB-101906	BPJ0405-03	Water	10/19/06 12:00	10/19/06 15:45
SKY-BKGD-101906	BPJ0405-04	Water	10/19/06 09:40	10/19/06 15:45
SKY-MID-101906	BPJ0405-05	Water	10/19/06 10:10	10/19/06 15:45

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name:	BNSF-Skykomish Levee Water	Report Created: 11/07/06 17:07
	Project Number:	BN050-19390-220	
	Project Manager:	Stephen Howard	

Analytical Case Narrative
TestAmerica - Seattle, WA

BPJ0405

SAMPLE RECEIPT

The samples were received October 19th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.1 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:07

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0405-01 (SKY-EFF-101906)		Water		Sampled: 10/19/06 10:15						
Arsenic	EPA 200.8	0.00386	0.000430	0.00100	mg/l	1x	6J20035	10/20/06 14:42	10/23/06 12:33	
Lead	"	ND	0.000140	0.00100	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:07
---	---	--

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
Water										
Sampled: 10/19/06 10:15										
BPJ0405-01 (SKY-EFF-101906)										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J24006	10/24/06 09:45	10/24/06 12:15	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):										
1,2-DCA-d4			98.5%		70 - 130 %	"				"
Toluene-d8			94.5%		75 - 125 %	"				"
4-BFB			102%		75 - 125 %	"				"
Water										
Sampled: 10/19/06 12:00										
BPJ0405-03 (SKY-TB-101906)										
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J24006	10/24/06 09:45	10/24/06 11:48	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):										
1,2-DCA-d4			101%		70 - 130 %	"				"
Toluene-d8			95.0%		75 - 125 %	"				"
4-BFB			101%		75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 202 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:07
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Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0405-01 (SKY-EFF-101906)		Water								
		Sampled: 10/19/06 10:15								
Acenaphthene	EPA 8270C-HV1	ND	0.00256	0.0943	ug/l	1x	6J19036	10/19/06 15:08	11/06/06 20:25	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	0.00909	0.00268	0.0943	"	"	"	"	"	J
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	0.0226	0.00395	0.0943	"	"	"	"	"	J
Phenanthrene	"	0.0102	0.00244	0.0943	"	"	"	"	"	J
Pyrene	"	0.00560	0.00230	0.0943	"	"	"	"	"	J
Surrogate(s): Benzo (a) pyrene-d12		75.5%		20 - 125 %	"					
1-Methylnaphthalene-d10		92.5%		39 - 125 %	"					

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 11/07/06 17:07

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0405-01 (SKY-EFF-101906)		Water		Sampled: 10/19/06 10:15						
pH	EPA 150.1	7.43	—		pH Units	1x	6J23056	10/20/06 10:15	10/20/06 10:15	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6J23051	10/20/06 13:45	10/20/06 13:45	
BPJ0405-04 (SKY-BKGD-101906)		Water		Sampled: 10/19/06 09:40						
Turbidity	EPA 180.1	1.20	—	1.00	NTU	1x	6J23051	10/20/06 13:45	10/20/06 13:45	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/07/06 17:07

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0405-01 (SKY-EFF-101906)		Water			Sampled: 10/19/06 10:15					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	0.250	mg/l	1x	6100167	10/25/06 12:55	10/27/06 00:37	
Heavy Oil Range Hydrocarbons	*	ND	—	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP		79.0%		50 - 150 %		"		"		
p-Terphenyl-d14		81.6%		50 - 150 %		"		"		
BPJ0405-02 (SKY-INF-101906)		Water			Sampled: 10/19/06 10:05					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	0.250	mg/l	1x	6100167	10/25/06 12:55	10/27/06 01:12	
Heavy Oil Range Hydrocarbons	*	ND	—	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP		82.0%		50 - 150 %		"		"		
p-Terphenyl-d14		92.0%		50 - 150 %		"		"		
BPJ0405-05 (SKY-MID-101906)		Water			Sampled: 10/19/06 10:10					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	0.250	mg/l	1x	6100167	10/25/06 12:55	10/27/06 01:47	
Heavy Oil Range Hydrocarbons	*	ND	—	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP		79.5%		50 - 150 %		"		"		
p-Terphenyl-d14		84.6%		50 - 150 %		"		"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:07
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6J20035 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J20035-BLK1)														
Extracted: 10/20/06 14:42														
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	--	--	--	--	--	--	10/23/06 11:53	
Lead	"	ND	0.000140	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6J20035-BS1)														
Extracted: 10/20/06 14:42														
Arsenic	EPA 200.8	0.0780	0.000430	0.00100	mg/l	1x	--	0.0800	97.5%	(85-115)	--	--	10/23/06 11:59	
Lead	"	0.0761	0.000140	0.00100	"	"	--	"	95.1%	"	--	--	"	
Duplicate (6J20035-DUP1)														
QC Source: BPJ0405-01 Extracted: 10/20/06 14:42														
Lead	EPA 200.8	ND	0.000140	0.00100	mg/l	1x	ND	--	--	--	NR (20)	--	10/23/06 12:28	
Arsenic	"	0.00354	0.000430	0.00100	"	"	0.00386	--	--	--	8.65%	"	"	
Matrix Spike (6J20035-MS1)														
QC Source: BPJ0405-01 Extracted: 10/20/06 14:42														
Lead	EPA 200.8	0.0767	0.000140	0.00100	mg/l	1x	ND	0.0800	95.9%	(75-125)	--	--	10/23/06 12:05	
Arsenic	"	0.0825	0.000430	0.00100	"	"	0.00386	"	98.3%	"	--	--	"	
Matrix Spike (6J20035-MS2)														
QC Source: BPJ0421-02 Extracted: 10/20/06 14:42														
Lead	EPA 200.8	0.0839	0.000140	0.00100	mg/l	1x	ND	0.0800	105%	(75-125)	--	--	10/23/06 12:10	
Arsenic	"	0.100	0.000430	0.00100	"	"	0.0144	"	107%	"	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:07

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J24006

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J24006-BLK1)										Extracted: 10/24/06 08:45				
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	--	--	--	--	--	--	10/24/06 11:21	
Ethylbenzene	"	ND	0.125	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.127	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	0.298	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		Recovery: 99.0%		Limits: 70-130%	"								10/24/06 11:21	
Toluene-d8		93.5%		75-125%	"								"	
4-BFB		100%		75-125%	"								"	
LCS (6J24006-BS1)										Extracted: 10/24/06 08:45				
Benzene	EPA 8260B	19.7	0.114	0.500	ug/l	1x	--	20.0	98.5%	(80-120)	--	--	10/24/06 09:31	
Ethylbenzene	"	18.3	0.125	0.500	"	"	--	"	91.5%	(75-125)	--	--	"	
Toluene	"	18.4	0.127	0.500	"	"	--	"	92.0%	"	--	--	"	
Total Xylenes	"	60.4	0.298	3.00	"	"	--	60.0	101%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		Recovery: 99.0%		Limits: 70-130%	"								10/24/06 09:31	
Toluene-d8		93.5%		75-125%	"								"	
4-BFB		100%		75-125%	"								"	
LCS Dup (6J24006-BSD1)										Extracted: 10/24/06 08:45				
Benzene	EPA 8260B	19.6	0.114	0.500	ug/l	1x	--	20.0	98.0%	(80-120)	0.509%	(20)	10/24/06 09:57	
Ethylbenzene	"	18.2	0.125	0.500	"	"	--	"	91.0%	(75-125)	0.548%	"	"	
Toluene	"	18.3	0.127	0.500	"	"	--	"	91.5%	"	0.545%	"	"	
Total Xylenes	"	60.7	0.298	3.00	"	"	--	60.0	101%	"	0.495%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery: 98.0%		Limits: 70-130%	"								10/24/06 09:57	
Toluene-d8		94.0%		75-125%	"								"	
4-BFB		100%		75-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 11/07/06 17:07
---	--

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J19036 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J19036-BLK3)														
Extracted: 10/19/06 15:08														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	11/06/06 18:44	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 60.5% Limits: 20-125% " 11/06/06 18:44														
1-Methylnaphthalene-d10 83.1% 39-125% "														

LCS (6J19036-BS3)														
Extracted: 10/19/06 15:08														
Acenaphthene	EPA 8270C-HVI	16.3	0.0271	1.00	ug/l	10x	--	20.0	81.5%	(44-125)	--	--	11/06/06 19:18	
Acenaphthylene	"	17.1	0.0252	1.00	"	"	--	"	85.5%	(51-125)	--	--	"	
Anthracene	"	18.1	0.0284	1.00	"	"	--	"	90.5%	(50-125)	--	--	"	
Benzo (a) anthracene	"	17.5	0.0158	0.100	"	"	--	"	87.5%	"	--	--	"	
Benzo (a) pyrene	"	17.5	0.0315	0.100	"	"	--	"	87.5%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	17.7	0.0206	0.100	"	"	--	"	88.5%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	18.5	0.0186	0.100	"	"	--	"	92.5%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	18.3	0.0296	1.00	"	"	--	"	91.5%	(49-125)	--	--	"	
Chrysene	"	18.4	0.0188	0.100	"	"	--	"	92.0%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	18.1	0.0250	0.100	"	"	--	"	90.5%	(47-125)	--	--	"	
Fluoranthene	"	18.2	0.0196	1.00	"	"	--	"	91.0%	(55-125)	--	--	"	
Fluorene	"	16.4	0.0357	1.00	"	"	--	"	82.0%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	18.0	0.0246	0.100	"	"	--	"	90.0%	(49-125)	--	--	"	
1-Methylnaphthalene	"	15.8	0.0223	1.00	"	"	--	"	79.0%	(37-125)	--	--	"	
2-Methylnaphthalene	"	16.9	0.0228	1.00	"	"	--	"	84.5%	(40-125)	--	--	"	
Naphthalene	"	16.2	0.0419	1.00	"	"	--	"	81.0%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:07

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J19036

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6J19036-BS3)														
										Extracted: 10/19/06 15:08				
Phenanthrene	EPA 8270C-HVI	16.8	0.0259	1.00	ug/l	10x	--	20.0	84.0%	(47-125)	--	--	11/06/06 19:18	
Pyrene	"	18.1	0.0244	1.00	"	"	--	"	90.5%	"	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery:	82.0%	Limits: 20-125%		"								
1-Methylnaphthalene-d10			95.5%	39-125%		"								

LCS Dup (6J19036-BSD3)

										Extracted: 10/19/06 15:08				
Acenaphthene	EPA 8270C-HVI	15.7	0.0271	1.00	ug/l	10x	--	20.0	78.5%	(44-125)	3.75%	(35)	11/06/06 19:52	
Acenaphthylene	"	16.6	0.0252	1.00	"	"	--	"	83.0%	(51-125)	2.97%	"	"	
Anthracene	"	17.6	0.0284	1.00	"	"	--	"	88.0%	(50-125)	2.80%	"	"	
Benzo (a) anthracene	"	17.1	0.0158	0.100	"	"	--	"	85.5%	"	2.31%	"	"	
Benzo (a) pyrene	"	17.2	0.0315	0.100	"	"	--	"	86.0%	(47-125)	1.73%	"	"	
Benzo (b) fluoranthene	"	17.6	0.0206	0.100	"	"	--	"	88.0%	(50-125)	0.567%	"	"	
Benzo (k) fluoranthene	"	17.9	0.0186	0.100	"	"	--	"	89.5%	(46-125)	3.30%	"	"	
Benzo (ghi) perylene	"	17.9	0.0296	1.00	"	"	--	"	89.5%	(49-125)	2.21%	"	"	
Chrysene	"	17.8	0.0188	0.100	"	"	--	"	89.0%	(53-125)	3.31%	"	"	
Dibenz (a,h) anthracene	"	17.8	0.0250	0.100	"	"	--	"	89.0%	(47-125)	1.67%	"	"	
Fluoranthene	"	17.9	0.0196	1.00	"	"	--	"	89.5%	(55-125)	1.66%	"	"	
Fluorene	"	16.4	0.0357	1.00	"	"	--	"	82.0%	(52-125)	0.00%	"	"	
Indeno (1,2,3-cd) pyrene	"	17.6	0.0246	0.100	"	"	--	"	88.0%	(49-125)	2.25%	"	"	
1-Methylnaphthalene	"	15.7	0.0223	1.00	"	"	--	"	78.5%	(37-125)	0.635%	"	"	
2-Methylnaphthalene	"	16.7	0.0228	1.00	"	"	--	"	83.5%	(40-125)	1.19%	"	"	
Naphthalene	"	15.9	0.0419	1.00	"	"	--	"	79.5%	(42-125)	1.87%	"	"	
Phenanthrene	"	16.5	0.0259	1.00	"	"	--	"	82.5%	(47-125)	1.80%	"	"	
Pyrene	"	17.6	0.0244	1.00	"	"	--	"	88.0%	"	2.80%	"	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery:	76.3%	Limits: 20-125%		"								
1-Methylnaphthalene-d10			92.5%	39-125%		"								

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:07
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J23051	Water Preparation Method: General Preparation											
-------------------	---	--	--	--	--	--	--	--	--	--	--	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 10/20/06 13:45														
Blank (6J23051-BLK1)														
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	10/20/06 13:45	
Extracted: 10/20/06 13:45														
LCS (6J23051-BS1)														
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.3	100%	(90-110)	—	—	10/20/06 13:45	
QC Source: BPJ0405-04														
Extracted: 10/20/06 13:45														
Duplicate (6J23051-DUP1)														
Turbidity	EPA 180.1	1.20	—	1.00	NTU	1x	1.20	—	—	—	0.00%	(20)	10/20/06 13:45	

QC Batch: 6J23056	Water Preparation Method: General Preparation											
-------------------	---	--	--	--	--	--	--	--	--	--	--	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
QC Source: BPJ0405-01														
Extracted: 10/20/06 10:15														
Duplicate (6J23056-DUP1)														
pH	EPA 150.1	7.42	—		pH Units	1x	7.43	—	—	—	0.135%	(10)	10/20/06 10:15	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/07/06 17:07
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Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results
 TestAmerica - Spokane, WA

QC Batch: 6100167 **Water Preparation Method:** EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6100167-BLK1)										Extracted: 10/25/06 12:55				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	10/26/06 22:17	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 75.5%		Limits: 50-150%		"				10/26/06 22:17				
p-Terphenyl-d14		84.6%		50-150%		"				"				
LCS (6100167-BS1)										Extracted: 10/25/06 12:55				
Diesel Range Hydrocarbons	NWTPH-Dx	2.55	---	0.250	mg/l	1x	--	2.50	102%	(50-150)	--	--	10/26/06 22:52	
Surrogate(s): 2-FBP		Recovery: 86.0%		Limits: 50-150%		"				10/26/06 22:52				
p-Terphenyl-d14		97.5%		50-150%		"				"				
LCS Dup (6100167-BSD1)										Extracted: 10/25/06 12:55				
Diesel Range Hydrocarbons	NWTPH-Dx	2.40	---	0.250	mg/l	1x	--	2.50	96.0%	(50-150)	6.06%	(11.8)	10/26/06 23:27	
Surrogate(s): 2-FBP		Recovery: 80.5%		Limits: 50-150%		"				10/26/06 23:27				
p-Terphenyl-d14		90.5%		50-150%		"				"				

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/07/06 17:07

Notes and Definitions

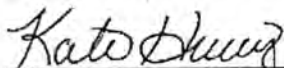
Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA



Kate Haney, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order #: **BPJ 405**

CLIENT: BNSF RAILWAY COMPANY		INVOICE TO: BNSF RAILWAY		TURNAROUND REQUEST															
REPORT TO: STEVE HOWARD - RETEC		P.O. NUMBER: TT0100 - G06		In Business Days *															
ADDRESS: 1011 SW KLIKITAT WAY, STE #207 SEATTLE, WA 98134				Organic & Inorganic Analyses															
PHONE: 206-624-9349 FAX: 206-624-2839		PRESERVATIVE		☒ 7 5 4 3 2 1 <1 STD.															
PROJECT NAME: SKYKOMISH NPDES		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses 5 4 3 2 1 <1 STD.															
PROJECT NUMBER: BN050-19390-220		HCl ☐ HCl ☐ HNO3 ☐		OTHER Specify:															
SAMPLED BY:		MATRIX (W, S, O)		# OF CONT.															
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MTA-OK	NO SG	PAH	BTEX	THESURRY	PH	AS, Pb											
SKY-NPDES-EFF-101906	10-19-06 1015	X	X	X	X	X	X	X											01
SKY-NPDES-INF-101906	10-19-06 1005	X																	02
SKY-NPDES-TB-101906	10-19-06				X														03
SKY-NPDES-BK00-101906	10-19-06 0940					X													04
SKY-NPDES-MID-101906	10-19-06 1010	X																	05
RELEASED BY: Dennis Hutz		DATE: 10-19-06		RECEIVED BY: Andre Webb		DATE: 10/19/06													
PRINT NAME: Dennis Hutz		FIRM: RETEC		PRINT NAME: Andre Webb		FIRM: THA													
RECEIVED BY: Dennis Hutz		DATE: 10-19-06		RECEIVED BY: Shamir Bep		DATE: 10/19/06													
PRINT NAME: Dennis Hutz		FIRM: RETEC		PRINT NAME: Shamir Bep		FIRM: THA													
ADDITIONAL REMARKS:		TEMP: 9.1																	

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
 Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

November 08, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 10/26/06 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 11/08/06
11:40.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPJ0573	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/08/06 11:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-102506	BPJ0573-01	Water	10/25/06 09:35	10/26/06 16:00
SKY-INF-102506	BPJ0573-02	Water	10/25/06 09:25	10/26/06 16:00
SKY-TB-102506	BPJ0573-03	Water	10/25/06 10:00	10/26/06 16:00
SKY-BKGD-102506	BPJ0573-04	Water	10/25/06 09:15	10/26/06 16:00
SKY-MID-102506	BPJ0573-05	Water	10/25/06 09:30	10/26/06 16:00

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/08/06 11:40

Analytical Case Narrative

TestAmerica - Seattle, WA

BPJ0573

SAMPLE RECEIPT

The samples were received October 26th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.5 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: 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 the report.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard
	Report Created: 11/08/06 11:40

Total Metals by EPA 200 Series Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0573-01 (SKY-EFF-102506)		Water		Sampled: 10/25/06 09:35						
Arsenic	EPA 200.8	0.00285	0.000430	0.00100	mg/l	1x	6J30024	10/30/06 09:27	10/31/06 09:13	
Lead	*	ND	0.000140	0.00100	*	*	*	*	*	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 11/08/06 11:40

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0573-01 (SKY-EFF-102506)										
Water					Sampled: 10/25/06 09:35					
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J30045	10/30/06 13:17	10/30/06 13:20	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):			1,2-DCA-d4	120%	70 - 130 %	"				"
			Toluene-d8	102%	75 - 125 %	"				"
			4-BFB	106%	75 - 125 %	"				"
BPJ0573-03 (SKY-TB-102506)										
Water					Sampled: 10/25/06 10:00					
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6J30045	10/30/06 13:17	10/30/06 13:46	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):			1,2-DCA-d4	118%	70 - 130 %	"				"
			Toluene-d8	102%	75 - 125 %	"				"
			4-BFB	104%	75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/08/06 11:40

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0573-01 (SKY-EFF-102506)		Water		Sampled: 10/25/06 09:35						
Acenaphthene	EPA 8270C-HV1	ND	0.00256	0.0943	ug/l	1x	6J26016	10/26/06 09:44	11/07/06 12:55	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	ND	0.00268	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	ND	0.00395	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	0.00244	0.0943	"	"	"	"	"	
Pyrene	"	ND	0.00230	0.0943	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12			82.5%		20 - 125 %	"			"	
1-Methylnaphthalene-d10			95.5%		39 - 125 %	"			"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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



The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/08/06 11:40
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Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0573-01 (SKY-EFF-102506)		Water			Sampled: 10/25/06 09:35					
pH	EPA 150.1	7.73	—		pH Units	1x	6K02033	10/26/06 14:30	10/26/06 14:30	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6K02062	10/26/06 14:00	10/26/06 14:00	
BPJ0573-04 (SKY-BKGD-102506)		Water			Sampled: 10/25/06 09:15					
Turbidity	EPA 180.1	1.10	—	1.00	NTU	1x	6K02062	10/26/06 14:00	10/26/06 14:00	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**
 Project Number: **BN050-19390-220**
 Project Manager: **Stephen Howard**

Report Created:
 11/08/06 11:40

Extractable Petroleum Hydrocarbons
 TestAmerica - Nashville, TN

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPJ0573-01 (SKY-EFF-102506)		Water		Sampled: 10/25/06 09:35						
Diesel	NWTPH-Dx	ND	—	94.3	ug/L	1x	6106320	11/01/06 08:46	11/01/06 21:56	
Motor Oil	"	ND	—	94.3	"	"	"	"	"	
Surrogate(s): o-Terphenyl		90%		51 - 142 %		"		"		
BPJ0573-02 (SKY-INF-102506)		Water		Sampled: 10/25/06 09:25						
Diesel	NWTPH-Dx	226	—	94.3	ug/L	1x	6106320	11/01/06 08:46	11/01/06 22:15	
Motor Oil	"	ND	—	94.3	"	"	"	"	"	
Surrogate(s): o-Terphenyl		80%		51 - 142 %		"		"		
BPJ0573-05 (SKY-MID-102506)		Water		Sampled: 10/25/06 09:30						
Diesel	NWTPH-Dx	ND	—	95.2	ug/L	1x	6106320	11/01/06 08:46	11/01/06 22:34	
Motor Oil	"	ND	—	95.2	"	"	"	"	"	
Surrogate(s): o-Terphenyl		78%		51 - 142 %		"		"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/08/06 11:40
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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J30024	Water Preparation Method: EPA 200 Series
-------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6J30024-BLK1)														
Extracted: 10/30/06 09:27														
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	--	--	--	--	--	--	10/31/06 08:27	
Lead	"	0.000140	0.000140	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6J30024-BS1)														
Extracted: 10/30/06 09:27														
Arsenic	EPA 200.8	0.0791	0.000430	0.00100	mg/l	1x	--	0.0800	98.9%	(85-115)	--	--	10/31/06 08:33	
Lead	"	0.0759	0.000140	0.00100	"	"	--	"	94.9%	"	--	--	"	
Duplicate (6J30024-DUP1)														
QC Source: BPJ0573-01														
Extracted: 10/30/06 09:27														
Arsenic	EPA 200.8	0.00289	0.000430	0.00100	mg/l	1x	0.00285	--	--	--	1.39%	(20)	10/31/06 08:50	
Lead	"	ND	0.000140	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (6J30024-MS1)														
QC Source: BPJ0573-01														
Extracted: 10/30/06 09:27														
Arsenic	EPA 200.8	0.0817	0.000430	0.00100	mg/l	1x	0.00285	0.0800	98.6%	(75-125)	--	--	10/31/06 08:39	
Lead	"	0.0756	0.000140	0.00100	"	"	ND	"	94.5%	"	--	--	"	
Matrix Spike (6J30024-MS2)														
QC Source: BPJ0594-05														
Extracted: 10/30/06 09:27														
Arsenic	EPA 200.8	0.0885	0.000430	0.00100	mg/l	1x	0.00654	0.0800	102%	(75-125)	--	--	10/31/06 08:44	
Lead	"	0.0796	0.000140	0.00100	"	"	0.00215	"	96.8%	"	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 11/08/06 11:40
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J30045 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (6J30045-BLK1)														
Extracted: 10/30/06 10:17														
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	--	--	--	--	--	--	10/30/06 13:11	
Ethylbenzene	"	ND	0.125	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.127	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	0.298	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 117% Limits: 70-130% 10/30/06 13:11														
Toluene-d8 102% 75-125% "														
4-BFB 102% 75-125% "														

LCS (6J30045-BS1)														
Extracted: 10/30/06 10:17														
Benzene	EPA 8260B	17.6	0.114	0.500	ug/l	1x	--	20.0	88.0%	(80-120)	--	--	10/30/06 12:06	
Ethylbenzene	"	19.6	0.125	0.500	"	"	--	"	98.0%	(75-125)	--	--	"	
Toluene	"	18.0	0.127	0.500	"	"	--	"	90.0%	"	--	--	"	
Total Xylenes	"	59.4	0.298	3.00	"	"	--	60.0	99.0%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 122% Limits: 70-130% 10/30/06 12:06														
Toluene-d8 102% 75-125% "														
4-BFB 103% 75-125% "														

LCS Dup (6J30045-BSD1)														
Extracted: 10/30/06 10:17														
Benzene	EPA 8260B	20.2	0.114	0.500	ug/l	1x	--	20.0	101%	(80-120)	13.8% (20)	--	10/30/06 12:26	
Ethylbenzene	"	21.9	0.125	0.500	"	"	--	"	110%	(75-125)	11.1%	"	"	
Toluene	"	20.8	0.127	0.500	"	"	--	"	104%	"	14.4%	"	"	
Total Xylenes	"	67.5	0.298	3.00	"	"	--	60.0	112%	"	12.8%	"	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 118% Limits: 70-130% 10/30/06 12:26														
Toluene-d8 100% 75-125% "														
4-BFB 99.5% 75-125% "														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/08/06 11:40

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J26016

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 10/26/06 09:44														
Blank (6J26016-BLK3)														
Acenaphthene	EPA 8270C-HVI	0.0201	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	11/08/06 09:28	J
Acenaphthylene	"	0.0134	0.00252	0.100	"	"	--	--	--	--	--	--	"	J
Anthracene	"	0.0189	0.00284	0.100	"	"	--	--	--	--	--	--	"	J
Benzo (a) anthracene	"	0.0220	0.00158	0.0100	"	"	--	--	--	--	--	--	"	B
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	B
Benzo (b) fluoranthene	"	0.0225	0.00206	0.0100	"	"	--	--	--	--	--	--	"	B
Benzo (k) fluoranthene	"	0.0143	0.00186	0.0100	"	"	--	--	--	--	--	--	"	J
Benzo (ghi) perylene	"	0.0569	0.00296	0.100	"	"	--	--	--	--	--	--	"	B
Chrysene	"	0.0190	0.00188	0.0100	"	"	--	--	--	--	--	--	"	B
Dibenz (a,h) anthracene	"	0.0210	0.00250	0.0100	"	"	--	--	--	--	--	--	"	J
Fluoranthene	"	0.0196	0.00196	0.100	"	"	--	--	--	--	--	--	"	J
Fluorene	"	0.0203	0.00357	0.100	"	"	--	--	--	--	--	--	"	B
Indeno (1,2,3-cd) pyrene	"	0.0565	0.00246	0.0100	"	"	--	--	--	--	--	--	"	J
1-Methylnaphthalene	"	0.0167	0.00223	0.100	"	"	--	--	--	--	--	--	"	J
2-Methylnaphthalene	"	0.0188	0.00228	0.100	"	"	--	--	--	--	--	--	"	J
Naphthalene	"	0.0244	0.00419	0.100	"	"	--	--	--	--	--	--	"	J
Phenanthrene	"	0.0217	0.00259	0.100	"	"	--	--	--	--	--	--	"	J
Pyrene	"	0.0221	0.00244	0.100	"	"	--	--	--	--	--	--	"	J

Surrogate(s): 1-Methylnaphthalene-d10

Recovery: 94.5%

Limits: 39-125%

11/08/06 09:28

LCS (6J26016-BS3)

Extracted: 10/26/06 09:44														
Acenaphthene	EPA 8270C-HVI	17.1	0.0271	1.00	ug/l	10x	--	20.0	85.5%	(44-125)	--	--	11/08/06 10:04	
Acenaphthylene	"	17.1	0.0252	1.00	"	"	--	"	85.5%	(51-125)	--	--	"	
Anthracene	"	19.3	0.0284	1.00	"	"	--	"	96.5%	(50-125)	--	--	"	B
Benzo (a) anthracene	"	18.9	0.0158	0.100	"	"	--	"	94.5%	"	--	--	"	
Benzo (a) pyrene	"	19.7	0.0315	0.100	"	"	--	"	98.5%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	19.8	0.0206	0.100	"	"	--	"	99.0%	(50-125)	--	--	"	B
Benzo (k) fluoranthene	"	20.1	0.0186	0.100	"	"	--	"	100%	(46-125)	--	--	"	B
Benzo (ghi) perylene	"	19.2	0.0296	1.00	"	"	--	"	96.0%	(49-125)	--	--	"	
Chrysene	"	20.0	0.0188	0.100	"	"	--	"	100%	(53-125)	--	--	"	B
Dibenz (a,h) anthracene	"	18.7	0.0250	0.100	"	"	--	"	93.5%	(47-125)	--	--	"	B
Fluoranthene	"	18.6	0.0196	1.00	"	"	--	"	93.0%	(55-125)	--	--	"	
Fluorene	"	16.8	0.0357	1.00	"	"	--	"	84.0%	(52-125)	--	--	"	B
Indeno (1,2,3-cd) pyrene	"	19.4	0.0246	0.100	"	"	--	"	97.0%	(49-125)	--	--	"	
1-Methylnaphthalene	"	17.7	0.0223	1.00	"	"	--	"	88.5%	(37-125)	--	--	"	
2-Methylnaphthalene	"	19.2	0.0228	1.00	"	"	--	"	96.0%	(40-125)	--	--	"	
Naphthalene	"	16.7	0.0419	1.00	"	"	--	"	83.5%	(42-125)	--	--	"	
Phenanthrene	"	17.4	0.0259	1.00	"	"	--	"	87.0%	(47-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/08/06 11:40

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6J26016 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6J26016-BS3)										Extracted: 10/26/06 09:44				
Pyrene	EPA 8270C-HVI	18.8	0.0244	1.00	ug/l	10x	—	20.0	94.0%	(47-125)	—	—	11/08/06 10:04	
Surrogate(s): 1-Methylnaphthalene-d10 Recovery: 120% Limits: 39-125% " 11/08/06 10:04														
LCS Dup (6J26016-BS3)										Extracted: 10/26/06 09:44				
Acenaphthene	EPA 8270C-HVI	15.8	0.0271	1.00	ug/l	10x	—	20.0	79.0%	(44-125)	7.90%	(35)	11/08/06 10:38	
Acenaphthylene	"	16.3	0.0252	1.00	"	"	—	"	81.5%	(51-125)	4.79%	"	"	
Anthracene	"	18.1	0.0284	1.00	"	"	—	"	90.5%	(50-125)	6.42%	"	"	
Benzo (a) anthracene	"	17.9	0.0158	0.100	"	"	—	"	89.5%	"	5.43%	"	"	B
Benzo (a) pyrene	"	19.0	0.0315	0.100	"	"	—	"	95.0%	(47-125)	3.62%	"	"	
Benzo (b) fluoranthene	"	19.8	0.0206	0.100	"	"	—	"	99.0%	(50-125)	0.00%	"	"	B
Benzo (k) fluoranthene	"	19.1	0.0186	0.100	"	"	—	"	95.5%	(46-125)	5.10%	"	"	B
Benzo (ghi) perylene	"	17.3	0.0296	1.00	"	"	—	"	86.5%	(49-125)	10.4%	"	"	
Chrysene	"	18.7	0.0188	0.100	"	"	—	"	93.5%	(53-125)	6.72%	"	"	B
Dibenz (a,h) anthracene	"	17.3	0.0250	0.100	"	"	—	"	86.5%	(47-125)	7.78%	"	"	B
Fluoranthene	"	18.2	0.0196	1.00	"	"	—	"	91.0%	(55-125)	2.17%	"	"	
Fluorene	"	16.3	0.0357	1.00	"	"	—	"	81.5%	(52-125)	3.02%	"	"	
Indeno (1,2,3-cd) pyrene	"	17.7	0.0246	0.100	"	"	—	"	88.5%	(49-125)	9.16%	"	"	B
1-Methylnaphthalene	"	16.1	0.0223	1.00	"	"	—	"	80.5%	(37-125)	9.47%	"	"	
2-Methylnaphthalene	"	17.1	0.0228	1.00	"	"	—	"	85.5%	(40-125)	11.6%	"	"	
Naphthalene	"	15.1	0.0419	1.00	"	"	—	"	75.5%	(42-125)	10.1%	"	"	
Phenanthrene	"	16.7	0.0259	1.00	"	"	—	"	83.5%	(47-125)	4.11%	"	"	
Pyrene	"	18.2	0.0244	1.00	"	"	—	"	91.0%	"	3.24%	"	"	
Surrogate(s): 1-Methylnaphthalene-d10 Recovery: 102% Limits: 39-125% " 11/08/06 10:38														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/08/06 11:40
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6K02033	Water Preparation Method: General Preparation
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6K02033-DUP1)														
							QC Source: BPJ0573-01			Extracted: 10/26/06 14:30				
pH	EPA 150.1	7.73	---		pH Units	1x	7.73	--	--	--	0.00% (10)		10/26/06 14:30	

QC Batch: 6K02062	Water Preparation Method: General Preparation
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K02062-BLK1)														
							Extracted: 10/26/06 14:00							
Turbidity	EPA 180.1	ND	---	1.00	NTU	1x	--	--	--	--	--	--	10/26/06 14:00	
LCS (6K02062-BS1)														
							Extracted: 10/26/06 14:00							
Turbidity	EPA 180.1	14.3	---	1.00	NTU	1x	--	14.3	100%	(90-110)	--	--	10/26/06 14:00	
Duplicate (6K02062-DUP1)														
							QC Source: BPJ0573-01			Extracted: 10/26/06 14:00				
Turbidity	EPA 180.1	ND	---	1.00	NTU	1x	ND	--	--	--	0.00% (20)		10/26/06 14:00	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.
 1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
 Project Number: BN050-19390-220
 Project Manager: Stephen Howard

Report Created:
 11/08/06 11:40

Extractable Petroleum Hydrocarbons - Laboratory Quality Control Results
 TestAmerica - Nashville, TN

QC Batch: 6106320

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6106320-BLK1)								Extracted: 11/01/06 08:46						
Diesel	NWTPH-Dx	ND	---	100	ug/L	1x	--	--	--	--	--	--	11/01/06 19:03	
Motor Oil	*	ND	---	100	*	*	--	--	--	--	--	--	*	
Surrogate(s): o-Terphenyl		Recovery: 84%		Limits: 51-142%		*		11/01/06 19:03						
LCS (6106320-BS1)								Extracted: 11/01/06 08:46						
Diesel	NWTPH-Dx	944	---	100	ug/L	1x	--	1000	94%	(56-116)	--	--	11/01/06 19:23	
Surrogate(s): o-Terphenyl		Recovery: 86%		Limits: 51-142%		*		11/01/06 19:23						

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/08/06 11:40

Notes and Definitions

Report Specific Notes:

- B - Analyte detected in the method blank.
- J - Estimated value.

Laboratory Reporting Conventions:

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

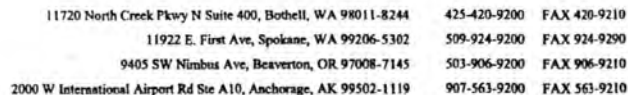
TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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





Work Order #: 4573

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

Attachment C
Organic and Inorganic Data Verification Report

November 9, 2006

**Organic and Inorganic
Data Verification Report**

**BNSF Railway Company
Skykomish Levee**

**Wastewater, Water, with Water QC Samples
October 2006**

Prepared for:

**Steve Howard
Project Manager
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134-1162**

Prepared by:

**Sue Milcan
Environmental Scientist/Quality Assurance Manager
The RETEC Group, Inc.
2409 Research Blvd., Suite 106
Fort Collins, CO 80526**

RETEC Project No.: BN050-19390-220

Overview

The samples analyzed for the BNSF Railway Company, Skykomish Levee sampling event from October 2006 are listed in the Table of Samples Analyzed (page 2). Data verification was performed on sixteen wastewater samples, four background water samples, and four trip blank samples.

Samples were analyzed by Test America (TA-Bothell), of Bothell, WA. The verified analyses were Benzene, Ethylbenzene, Toluene, and total Xylenes (BTEX) by GC/MS method 8260B; Polynuclear Aromatic Hydrocarbons (PAHs) including 1-methylnaphthalene and 2-methylnaphthalene by GC/MS method 8270C with high volume injection (8270C HVI); Semivolatile Petroleum Products as Diesel Range Hydrocarbons (DRH) and Lube Oil Range Hydrocarbons (LORH) by WDOE NWTPH-Dx method without cleanup; Total Metals (Arsenic and Lead only) by ICP method 200.8; Total Suspended Solids (TSS) by method 160.2; Turbidity by method 180.1; and pH by method 150.1.

The RETEC Analytical Data Verification Checklist is presented as pages 4-9. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic/Inorganic Data Review*, document numbers EPA540/R-99/008 and EPA540/R-04/004 of October 1999 (Organic) and October 2004 (Inorganic), and the *USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-04-009, January 2005 (Draft), as they applied to the reported methodology. Washington State Department of Ecology (WDOE) methods were also reviewed as per *WDOE Analytical Methods for Petroleum Hydrocarbons*, ECY 97-602 of June 1997.

The following data components were reviewed during the data verification procedure:

Submitted Deliverables
Chain-of-Custody form(s) and sample integrity
Case Narrative comments, assigned laboratory flags and definitions
Sample results including reporting limits and dilution factors
Holding time
Method blank results
LCS, LCSD (blank spike) results
MS, MSD (matrix spike) recoveries
Laboratory duplicate results
Surrogate recoveries
Trip blank results
Electronic data deliverable query (EDD query)

Data Verification Qualifiers Assigned During this Review

- J estimated concentration
- U evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination

Assigned qualifiers are detailed in the RETEC Analytical Data Verification Checklist and are summarized in the Table of Qualified Analytical Results (page 3).

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use with the qualifications noted.

Table of Samples Analyzed
BNSF Railway Company - Skykomish Levee
Wastewater, Water with Water QC Samples
Test America (TA-Bothell) Laboratory Reports (as listed)
October 2006

Matrix	Sample ID	Sample Date	Sample Time	Lab SDG	Lab Sample ID
Wastewater	SKY-EFF-100406	10/4/2006	11:40	BPJ0080	BPJ0080-01
Wastewater	SKY-INF-100406	10/4/2006	11:25	BPJ0080	BPJ0080-02
Water QC	SKY-TB-100406	10/4/2006		BPJ0080	BPJ0080-03
Water	SKY-BKGD-100406	10/4/2006	11:05	BPJ0080	BPJ0080-04
Wastewater	SKY-MID-100406	10/4/2006	11:28	BPJ0080	BPJ0080-05
Wastewater	SKY-TSS1-100406	10/4/2006	09:00	BPJ0080	BPJ0080-06
Wastewater	SKY-TSS2-100306	10/3/2006	15:15	BPJ0080	BPJ0080-07
Wastewater	SKY-TSS3-100306	10/3/2006	17:45	BPJ0080	BPJ0080-08
Wastewater	SKY-TSS4-100406	10/4/2006	11:15	BPJ0080	BPJ0080-09
Wastewater	SKY-EFF-101106	10/11/2006	10:20	BPJ0201	BPJ0201-01
Wastewater	SKY-INF-101106	10/11/2006	10:10	BPJ0201	BPJ0201-02
Water QC	SKY-TB-101106	10/11/2006		BPJ0201	BPJ0201-03
Water	SKY-BKGD-101106	10/11/2006	09:50	BPJ0201	BPJ0201-04
Wastewater	SKY-MID-101106	10/11/2006	10:15	BPJ0201	BPJ0201-05
Wastewater	SKY-EFF-101906	10/19/2006	10:15	BPJ0405	BPJ0405-01
Wastewater	SKY-INF-101906	10/19/2006	10:05	BPJ0405	BPJ0405-02
Water QC	SKY-TB-101906	10/19/2006		BPJ0405	BPJ0405-03
Water	SKY-BKGD-101906	10/19/2006	09:40	BPJ0405	BPJ0405-04
Wastewater	SKY-MID-101906	10/19/2006	10:10	BPJ0405	BPJ0405-05
Wastewater	SKY-EFF-102506	10/25/2006	09:35	BPJ0573	BPJ0573-01
Wastewater	SKY-INF-102506	10/25/2006	09:25	BPJ0573	BPJ0573-02
Water QC	SKY-TB-102506	10/25/2006		BPJ0573	BPJ0573-03
Water	SKY-BKGD-102506	10/25/2006	09:15	BPJ0573	BPJ0573-04
Wastewater	SKY-MID-102506	10/25/2006	09:30	BPJ0573	BPJ0573-05

Table of Qualified Analytical Results
BNSF Railway Company - Skykomish Levee
Wastewater (WW), Water (W), with Water QC (WQ) Samples
Test America (TA-Bothell) Laboratory Reports (as listed)
October 2006

Sample ID	Matrix	Lab ID	Method	QC Batch	Analyte	Concentration	Qualifier	Reason Code
SKY-INF-100406	WW	BPJ0080-02	NWTPH-Dx	6J05057	Diesel Range Hydrocarbon	0.155 mg/L	J	< MRL
SKY-TSS4-100406	WW	BPJ0080-09	160.2	6J07006	Total Suspended Solids	66 mg/L	J	RPD
SKY-EFF-101106	WW	BPJ0201-01	8270C HVI	6J13023	2-Methylnaphthalene	< 0.0943 µg/L	U	MB, < MRL - original result was 0.00657 µg/L
SKY-EFF-101106	WW	BPJ0201-01	8270C HVI	6J13023	Anthracene	< 0.0943 µg/L	U	MB, < MRL - original result was 0.00915 µg/L
SKY-EFF-101106	WW	BPJ0201-01	8270C HVI	6J13023	Phenanthrene	< 0.0943 µg/L	U	MB, < MRL - original result was 0.0113 µg/L
SKY-EFF-101106	WW	BPJ0201-01	150.1	6J13063	pH	6.84 std units	J	HT
SKY-INF-101106	WW	BPJ0201-02	NWTPH-Dx	6J13021	Diesel Range Hydrocarbon	0.147 mg/L	J	< MRL
SKY-MID-101106	WW	BPJ0201-05	NWTPH-Dx	6J13021	Diesel Range Hydrocarbon	0.0573 mg/L	J	< MRL
SKY-EFF-101906	WW	BPJ0405-01	8270C HVI	6J19036	Anthracene	0.00909 µg/L	J	< MRL
SKY-EFF-101906	WW	BPJ0405-01	8270C HVI	6J19036	Naphthalene	0.0226 µg/L	J	< MRL
SKY-EFF-101906	WW	BPJ0405-01	8270C HVI	6J19036	Phenanthrene	0.0102 µg/L	J	< MRL
SKY-EFF-101906	WW	BPJ0405-01	8270C HVI	6J19036	Pyrene	0.00560 µg/L	J	< MRL

Reason Codes:

< MRL - concentration reported is $\geq$ the method detection limit but is < the method reporting limit

HT - method required holding time was exceeded (analysis)

MB - analyte was also detected in the associated method blank; evidence of laboratory contamination

RPD - relative percent difference between laboratory duplicates exceeds QC limits; laboratory precision outlier

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

Project Name: BNSF Railway Company	Laboratory: Test America (TA-Bothell), of Bothell, WA					
Project Reference: Skykomish Levee	Sample Matrix: Wastewater, Water with Water QC samples					
RETEC Project: BN050-19390-220	Sample Start Date: 10/04/2006					
Verified By/Date Verified: Sue Milcan 11/09/2006	Sample End Date: 10/25/2006					
Samples Analyzed: see Table of Samples Analyzed, BNSF Railway – Skykomish Levee, Wastewater, Water with Water QC Samples, October 2006 (page 2).						
Parameters Verified: Benzene, Ethylbenzene, Toluene, and total Xylenes (BTEX) by GC/MS method 8260B; Polynuclear Aromatic Hydrocarbons (PAHs) including 1-methylnaphthalene and 2-methylnaphthalene by GC/MS method 8270C with high volume injection (8270C HVI); Semivolatile Petroleum Products as Diesel Range Hydrocarbons (DRH) and Lube Oil Range Hydrocarbons (LORH) by WDOE NWTPH-Dx method without cleanup; Total Metals (Arsenic and Lead only) by ICP method 200.8; Total Suspended Solids (TSS) by method 160.2; Turbidity by method 180.1; and pH by method 150.1. Not all samples were analyzed for every parameter/method. Refer to Chain of Custody records for the exact analyses requested.						
Laboratory Project IDs (SDGs): BPJ0080, BPJ0201, BPJ0405, BPJ0573.						
PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT						
Precision:	X	Acceptable		Unacceptable	SM	Initials
Comments: Precision is the measure of variability of individual sample measurements. Field precision was not determined for this data set since field duplicate samples were not submitted for analysis. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. RPD precision measurements were compared to EPA published and/or laboratory control-chart QC limits. Although some data require qualification based on laboratory duplicate RPDs (see item 17), overall laboratory precision is acceptable since a majority of the data are unqualified and no data are rejected. Precision measurements are reviewed in items 17 and 21.						
Accuracy:	X	Acceptable		Unacceptable	SM	Initials
Comments: Field accuracy, a measure of the sampling bias, was determined by reviewing trip blank results for evidence of contamination stemming from sample transport. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample and laboratory control sample duplicate (LCS, LCSD), matrix spike and matrix spike duplicate (MS, MSD), and organic system monitoring compound (surrogate) percent recoveries (%Rs). LCS, LCSD %Rs demonstrated overall analytical performance. MS, MSD %Rs provided information on sample matrix interferences. System monitoring compound or surrogate recoveries measured system performance and efficiency during organic analysis. %Rs were compared to EPA published and/or laboratory control charted QC limits. No data require qualification based on these measurements, and overall field and laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.						
Method Compliance:	X	Acceptable		Unacceptable	SM	Initials
Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, and laboratory blanks against method specified requirements. Although some data require qualification based on detection below the method reporting limit (see item 6), holding time exceedence (see item 8), or laboratory contamination (see item 11), overall method compliance is acceptable, based on the data submitted, since a majority of the data is unqualified and no data points are rejected. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

Completeness:	X	Acceptable		Unacceptable	SM	Initials
Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Project completeness goals were set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods, and detection limits. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverable queries (EDD queries). EDD modifications were made as documented in item 23. All of the data received from the lab were useable, some with qualification. Since no data were missing or rejected, completeness of the data set is calculated to be 100% and is acceptable.						
VERIFICATION CRITERIA CHECK						
Data verification qualifiers used in this review: J estimated concentration U evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						
1. Did the laboratory identify any non-conformances related to the analytical results?	X	Yes		No	SM	Initials
Comments: No issues were noted in case narrative comments or in report cover letters, however, any assigned laboratory flags and their definitions were reviewed as part of the data evaluation procedure. Data qualification, if any, related to the assigned laboratory data flags are discussed in the following sections.						
2. Were sample Chain-of-Custody forms complete?	X	Yes		No	SM	Initials
Comments: The COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, and laboratory dates and times of sample receipt.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	X	Yes		No	SM	Initials
Comments: All requested analyses as documented on the original COC forms were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	X	Yes		No	SM	Initials
Comments: All samples were received directly from the field the same day of sampling as witnessed on the supplied COC forms. Elevated sample receipt temperatures of 9.1 °C to 11.9 °C were noted in the laboratory case narrative reports and on the COC forms. These samples were determined to be in acceptable condition since samples were delivered from the field, no other preservation issues were noted, and the recorded temperatures were well below 24°C (room temperature). No action is required for this level of review other than to note these observations.						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	X	Yes		No	SM	Initials
Comments: Reported methods met those requested on the original COCs or the methods reported are in compliance with the parameters requested and the sample matrix.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

6. Were detection limits in accordance with WP/QAPP, permit, or method?	X	Yes		No	SM	Initials
Comments: Reported detection limits are achievable by the quoted methods, and meet or better those requested on previous COC forms for this project at the MDL and/or MRL (method detection limit, method reporting limit). All analytes were reported to MDLs except for general chemistry parameters. All samples were reported at undiluted levels. <u>All Methods -</u> Sample results reported at concentrations $\geq$ the MDL but $<$ the practical quantitation limit or method reporting limit (PQL/MRL), require J qualifiers to indicate estimated concentrations. The analyte cannot be accurately quantitated at this trace concentration level. Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	X	Yes		No	SM	Initials
Comments: Only analytes applicable to the requested methods were reported.						
8. Were sample holding times met?		Yes	X	No	SM	Initials
Comments: Method-required extraction and/or analytical preserved-sample holding times were met for all samples and analyses, except as noted. <u>Method 150.1 -</u> SDG BPJ0201: The 24 hour method-required holding time for pH analysis on a water sample was exceeded by 1 day for sample SKY-EFF-101106. The pH result reported for this sample requires a J qualifier to indicate an estimated concentration due to holding time exceedence. Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						
9. Were correct concentration units reported?	X	Yes		No	SM	Initials
Comments: Correct concentration units were reported. Note that method 8270C HVI and 8260B results were reported as $\mu\text{g/L}$ (ppb) while method NWTPH-Dx, 200.8, and 160.2 results were reported as mg/L (ppm). Turbidity results were reported as NTU, while pH results were reported as standard units. No action is required other than to alert the data user to these different measurement units.						
10. Were the reporting requirements for flagged data met?	X	Yes		No	SM	Initials
Comments: Data verification qualifiers override any assigned laboratory data flags.						
11. Were laboratory blank samples free of target analyte contamination?		Yes	X	No	SM	Initials
Comments: Laboratory blanks were free of target analyte contamination or were associated with undetected sample results, except as noted. Action limits were calculated at 10 times the blank concentration for metals and common organic laboratory contaminants, and at 5 times the blank concentration for remaining organics analytes. Continued on next page						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

PAHs by Method 8270C-HVI – Qualification of Results < RL -

Note: Current data validation guidance states that if a sample result is $\geq$ MDL but < MRL, and is also less than the 5x or 10x multiple of the blank result (whichever is appropriate), the sample result should be reported as being undetected at the reporting limit due to evidence of contamination (qualified as MRL U). The criteria of reporting the sample result as undetected at the reported concentration is not true for sample results that are < MRL. For these samples, the initial concentrations reported by the laboratory were maintained in the result_comment field of the project database for informational purposes only. Applying this guidance, the following qualifiers were assigned:

Trace amounts of anthracene (0.00540 $\mu\text{g/L}$), 2-methylnaphthalene (0.00698 $\mu\text{g/L}$), and phenanthrene (0.00968 $\mu\text{g/L}$) were reported in the QC batch 6J13023 method blank.

Action limits of five times the blank concentrations were established and compared to associated project sample results. Sample results that fell below the associated calculated action limit and were also less than the MRL were corrected to read < MRL $\mu\text{g/L}$ U in both the EDD and in the table of Qualified Analytical Results to show that the analyte was evaluated to be undetected at the MRL due to evidence of laboratory contamination and false positive detections below the MRL.

Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).

12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?	X	Yes		No	SM	Initials
Comments: The trip blank samples were free of method 8260B target analyte contamination. Field blank and equipment rinse blank samples were not submitted/not required for this data set.						
13. Were instrument calibrations within method or data validation control limits?		Yes		No	SM	Initials
Comments: Not applicable for this level of data verification – Instrument calibration data were not supplied in analytical laboratory reports and were therefore not included in this data review.						
14. Were surrogate recoveries within control limits?	X	Yes		No	SM	Initials
Comments: Surrogate %Rs for organic analyses were within laboratory control charted QC limits for all project samples and associated QC samples.						
15. Were laboratory control sample recoveries within control limits?	X	Yes		No	SM	Initials
Comments: Reported LCS, LCSD recoveries were within data validation QC limits (70-130% for organics; 80-120% for metals; 50-150% for general chemistry) for all target analytes, and/or were within laboratory control-charted QC limits for organic target analytes as allowed for SW-846 organic methods.						
16. Were matrix spike recoveries within control limits?	X	Yes		No	SM	Initials
Comments: Project specific MS and MSD recoveries for target analytes were within laboratory control charted QC limits.						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

17. Were duplicate RPDs and/or serial dilution %Ds within control limits?		Yes	X	No	SM	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD and project-specific duplicate samples were within data validation control limits, were not applicable due to undetected results in both samples, or sample results were within $\pm$ the detection limit, except as noted. RPDs from non-project source samples were considered, but were not utilized to qualify project sample results since matrix similarity to project samples could not be guaranteed. <i>Serial Dilution %D data for metals analysis is not applicable for this level of data verification – serial dilution data were not supplied in analytical laboratory reports and were therefore not included in this data review.</i> Method 160.2 – SDG BPJ0080: THE RPD for the TSS duplicate of sample SKY-TSS4-100406 exceeded the data validation QC limit of 20% and the laboratory QC limit of 25% at 25.6%. The TSS result reported for the source sample requires a J qualifier to indicate an estimated concentration due to the laboratory precision outlier. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						
18. Were organic system performance criteria met?		Yes		No	SM	Initials
<i>Comments: Not applicable for this level of data verification – Organic system performance data was not supplied in analytical laboratory reports and was therefore not included in this data review.</i>						
19. Were internal standards within method criteria for GC/MS sample analyses?		Yes		No	SM	Initials
<i>Comments: Not applicable for this level of data verification – GC/MS Internal standard data was not supplied in analytical laboratory reports and was therefore not included in this data review.</i>						
20. Were inorganic system performance criteria met?		Yes		No	SM	Initials
<i>Comments: Not applicable for this level of data verification – Inorganic system performance data was not supplied in analytical laboratory reports and was therefore not included in this data review.</i>						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.		Yes	X	No	SM	Initials
Duplicate Sample No.		Primary Sample No.				
Comments: Not applicable - Field duplicate samples were not submitted for analysis with this data set. Field precision was not evaluated.						
22. Were qualitative/quantitative criteria for organic target analyte identification met?		Yes		No	SM	Initials
<i>Comments: Not applicable for this level of data verification – Chromatograms, library searches, and quantitation reports were not supplied in analytical laboratory reports and were therefore not included in this data review. However, GC/MS quantitation reports and chromatograms were reviewed by trained laboratory personnel in accordance with the laboratory's internal QA/QC program. No identification/quantitation flags were assigned by the laboratory.</i>						

RETEC ANALYTICAL DATA VERIFICATION CHECKLIST

23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	SM	Initials
Comments: The submitted EDD query was reviewed 100% for positive concentrations and reporting limits, and was corrected as necessary for significant figures in compliance with hardcopy data report entries. The data validator changed the sample matrix code to WQ (water QC) from WG (groundwater) for the trip blank samples to more accurately reflect the sample matrix. Note that the sample matrix code of WG for non-QC project samples was not changed even though the correct matrix for many samples appears to be wastewater. The RETEC database manager was informed of all changes made to the EDD query files via this Checklist. The updated EQUIS EDD query, with corrections made and data validation qualifiers and reason codes added, was returned to the RETEC project manager in Seattle, WA on 11/09/2006.						
24. General Comments: Data were evaluated based on validation criteria set forth in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic/Inorganic Data Review</i>, document numbers EPA540/R-99/008 and EPA540/R-04/004 of October 1999 (Organic) and October 2004 (Inorganic), and the <i>USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review</i>, document number USEPA-540-R-04-009, January 2005 (<i>Draft</i>), as they applied to the reported methodology. Washington State Department of Ecology (WDOE) methods were also reviewed as per <i>WDOE Analytical Methods for Petroleum Hydrocarbons</i>, ECY 97-602 of June 1997. Refer to the table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 3).						

Letter of Transmittal



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

TO: Chris Smith, Washington Dept of Ecology DATE: December 15, 2006
 BNSF Skykomish Cleanup Site Discharge
RE: Monitoring Reports PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
 ☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
 ☐ Samples ☐ Other: _____

Copies	Date	No.	Description
1	December 15, 2006		BNSF Skykomish Cleanup Site (WA 0032123) Discharge Monitoring Report
1	December 15, 2006		BNSF Skykomish Cleanup Site Agreed Order DE-2379 Exhibit J Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit Copies for Distribution

Remarks:

Attached is the NPDES Discharge Monitoring Report for the November 2006 monitoring period and the Discharge Monitoring Report for stockpile runoff per Agreed Order DE-2379 Exhibit J.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in black ink, appearing to read "H. Voges", written over a horizontal line.

Halah M. Voges, P.E. Senior Program
Manager

cc: Louise Bardy, Ecology
 Jeanne Tran, Ecology
 Bruce Sheppard, Ecology
 Dennis Metz, RETEC
 RETEC file

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

Agreed Order DE 2014 EXHIBIT C
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA 0033123		001	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2006	11	01	2006
FROM		TO	
2006		2006	
11		11	
01		30	

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	150 (2)	GPM	*****	*****	*****	3	8 (3)	CONT METER
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	NA (1)	GPM	*****	*****	*****			
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
CHITOSAN-ACETATE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.1		07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	REPORT	NO	07/07	VISUAL
pH	Sample Measurement	*****	*****	***	10.9	*****	10.9	STD.	1	1/8 GRAB
	Permit Requirement	*****	*****		6.5	*****	8.5	UNIT	01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***		*****	*****	mg/L		
	Permit Requirement	*****	*****		8	*****	*****		01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****		NTU	*****	*****	*****	***		
	Permit Requirement	*****	REPORT		*****	*****	*****		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

(206) 625-6035
AREA NUMBER
CODE

2006/12/14
YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

- (1) Only one treatment train present
- (2) average flow
- (3) See Attachment B for explanation

Attachment A - Effluent Limits for stock pile runoff

Attachment B - Copy of Noncompliance Notification dated Dec. 13, 2006

Attachment C - Laboratory Analytical Result

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

Agreed Under DE-1571 EXHIBIT J
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	11	01	2006	11	30

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	21	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	360		01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	2400		01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	640		01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	0.0175	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	160		01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	480		01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE	DATE
Bruce Sheppard Manager Environmental Remediation TYPED OR PRINTED		(206) 625-6035 AREA NUMBER CODE	2006/12/11 YEAR MO DA
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT (DMR)

WA-0052123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	11	01	2006	11	30

NOTE: Read instructions before completing this form.

Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
EFFLUENT	Sample Measurement	*****		NTU	*****	*****	*****			
TURBIDITY (2)	Permit Requirement	*****	REPORT		*****	*****	*****		01/07	GRAB
INCREASE OVER	Sample Measurement	*****		NTU	*****	*****	*****			
BACKGROUND (2-1)	Permit Requirement	*****	5		*****	*****	*****		01/07	GRAB
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	1.2		01/07	GRAB
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	100		01/07	GRAB
TPH	Sample Measurement	*****	*****	***	*****	*****	813	0	1/8	GRAB
(BEFORE GAC)	Permit Requirement	*****	*****		*****	*****	REPORT		01/07	GRAB
TPH	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
(AFTER GAC)	Permit Requirement	*****	*****		*****	*****	208		01/07	GRAB
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	12.5		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard
Manager Environmental Remediation
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

206-1625-6035
AREA NUMBER
CODE

DATE

2006/12/14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

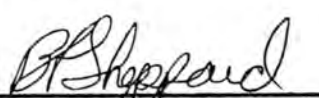
Agreed Order DE-0344 EXHIBIT
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT (DMR)

WA-0032123			001			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

NOTE: Read instructions before completing this form.

Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
INDENO (1, 2, 3-cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	0	1/8	GRAB
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Sheppard Manager Environmental Remediation TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			206 165-6035 AREA NUMBER CODE	206 12/11 YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHMENT A
EFFLUENT LIMITS FOR STOCKPILE RUNOFF

SPECIAL CONDITIONS**S1. EFFLUENT LIMITATIONS****A. Discharge from Contaminated Soil Stockpile**

Beginning on November 1, 2006 and lasting through March 30, 2007, BNSF Railway Company shall apply treated wastewater to land by means of a network of perforated pipes, distributed evenly to the ground surface at the following location, subject to the following limitations:

Discharge Location (depicted on attached Figure 2):

Legal Description: The NE Section 26, Township 26N, Range 1E

Latitude: 47° 42' 33" N

Longitude: 121° 21' 36" W

EFFLUENT LIMITATIONS FOR STOCK PILE RUNOFF	
Parameter	Maximum Daily^a
Hydraulic Loading Rate – Primary Application Area	30,900, gpd ^b
Hydraulic Loading Rate – Secondary Application Area	91,000 gpd ^b
pH (s.u.)	Between 6.5 and 8.5 standard units
Benzene	1 µg/L
BTEX	100 µg/L
Total Petroleum Hydrocarbon (TPH)	208 µg/L
Total Lead	17.5 µg/L
Polynuclear Aromatic Hydrocarbons (PAH)	0.01 µg/L
^a The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day.	
^b The hydraulic loading rates for the primary and secondary application areas were based on 17,400 sf and 51,350 sf, respectively. In addition, the hydraulic conductivity (10% of 0.8 m/d clear water permeability) of 3.15 inch/day, and precipitation (average rainfall in Skykomish from November through March) of 0.302 inch/day were also used to derive the flow limits.	

B. Ponding/Standing Water on Land Surface

Treated wastewater shall be land applied in such manner that there is no standing water or ponding on the land surface.

ATTACHMENT B
NONCOMPLIANCE NOTIFICATION LETTER DATED DECEMBER 13, 2006



Bruce A. Sheppard
Manager Environmental Remediation

BNSF Railway Company
2454 Occidental Avenue S, Suite 1A
Seattle, WA 98134-1451

Phone (206) 625-6036
Fax (206) 625-6007

December 13, 2006

Louise Bardy, Project Manager
Washington State Department of Ecology, Toxics Cleanup Program
3190 160th Ave. SE
Bellevue, WA 98008

**RE: BNSF Railway Company Former Maintenance and Fueling Facility, Skykomish, WA
Noncompliance with Exhibit J of Agreed Order DE-2379 on 11/15/06**

Dear Louise:

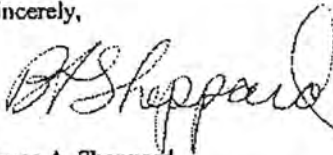
This letter is to provide immediate notification of noncompliance with effluent limitations for stock pile runoff specified in Exhibit J of Agreed Order DE-2379 from 11/7/06 to 11/15/06. In accordance with Section S3.E Noncompliance Notification this report contains a description of the noncompliance and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The wastewater treatment system was operated on an emergency basis with Ecology's verbal approval from 11/7/06 to 11/15/06 due to flood conditions and abnormally high precipitation. Ecology issued a Minor Modification to Agreed Order DE-2379 on November 22, 2006 that identifies substantive requirements for managing surface water runoff from stockpiles of excavation spoils resulting from implementation of the Levee Zone Interim Action for Cleanup. The modification allows BNSF to apply treated wastewater to BNSF property beginning November 1, 2006 and extending through March 30, 2007.

One discharge sample was collected during the 11/7/06 – 11/15/06 system operating period. Analytical laboratory results for the discharge sample collected on November 15 are attached. The results indicate a pH level of 10.9. Based on discussions with RETEC's process engineer, we believe the high pH value resulted from the new carbon that was used to treat the water. While there is also a small amount of lime being stored on the stockpile pad, it is well contained (covered) and not believed to be the source of the high pH. High pH resulting from carbon is considered to be a weak base. Water has not been discharged from the system since November 15, although the system was operated in recirculation mode to prevent freezing.

The following corrective action is being taken to ensure that pH is within effluent limitations prior to discharge in the future. Wilder will collect pH data from water samples from around the stock pile area and various locations in the treatment system to determine the source for the high pH. Water will be recirculated through the system and treated with sulfuric acid or carbon dioxide to adjust the pH as necessary prior to discharge to the ground surface.

The effluent limitations for stockpile runoff also include a maximum daily hydraulic loading rate for the primary application area of 30,900 gpd. During the 8-day operating period in November, a total of approximately 400,000 gallons of water were treated and discharged, resulting in an average daily discharge rate to the primary application area of 50,000 gpd. The exceedence of flow rate resulted from the flood conditions and the abnormally high precipitation that occurred during this time frame. In the future, we plan to store treated water and discharge at the specified rate. Alternatively, discharge may need to be applied to the secondary application area as allowed by the substantive requirements. Please contact me if there are any questions or concerns.

Sincerely,



Bruce A. Sheppard
Manager Environmental Remediation

Attachments: Test America lab report for RETEC's 11/15/06 compliance discharge sample

Cc: T. Nord, Department of Ecology
C. Trueblood, Preston Gates & Ellis
M. Wells, Preston Gates & Ellis
H. Voges, The Retec Group

ATTACHMENT C
LABORATORY ANALYTICAL REPORT

December 13, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 11/15/06 15:25.
The following list is a summary of the Work Orders contained in this report, generated on 12/13/06 12:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPK0431	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

12/13/06 12:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-AOJ-EFF-111506	BPK0431-01	Water	11/15/06 12:50	11/15/06 15:25
SKY-AOJ-INF-111506	BPK0431-02	Water	11/15/06 12:40	11/15/06 15:25
SKY-AOJ-MID-111506	BPK0431-03	Water	11/15/06 12:45	11/15/06 15:25
SKY-AOJ-TB-111506	BPK0431-04	Water	11/15/06 15:25	11/15/06 15:25

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Analytical Case Narrative

TestAmerica - Seattle, WA

BPK0431

SAMPLE RECEIPT

The samples were received November 15th, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 6.5 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): 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 the report.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	12/13/06 12:56
Seattle, WA 98134	Project Manager: Stephen Howard	

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0431-01 (SKY-AOJ-EFF-111506)		Water			Sampled: 11/15/06 12:50					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0377	0.236	mg/l	1x	6K16024	11/16/06 10:48	11/18/06 12:11	Q-41
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		102%		53 - 125 %		"		"		
Octacosane		101%		68 - 125 %		"		"		
BPK0431-02RE1 (SKY-AOJ-INF-111506)		Water			Sampled: 11/15/06 12:40					
Diesel Range Hydrocarbons	NWTPH-Dx	0.695	0.0377	0.236	mg/l	1x	6K16024	11/16/06 10:48	11/21/06 13:35	D-06
Lube Oil Range Hydrocarbons	"	0.118	0.0849	0.472	"	"	"	"	"	J
Surrogate(s): 2-FBP		94.1%		53 - 125 %		"		"		
Octacosane		96.2%		68 - 125 %		"		"		
BPK0431-03 (SKY-AOJ-MID-111506)		Water			Sampled: 11/15/06 12:45					
Diesel Range Hydrocarbons	NWTPH-Dx	0.0862	0.0377	0.236	mg/l	1x	6K16024	11/16/06 10:48	11/18/06 14:40	Q-41, J
Lube Oil Range Hydrocarbons	"	ND	0.0849	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		100%		53 - 125 %		"		"		
Octacosane		97.5%		68 - 125 %		"		"		

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0431-01 (SKY-AOJ-EFF-111506)		Water		Sampled: 11/15/06 12:50						
Arsenic	EPA 200.8	0.0210	0.000430	0.00100	mg/l	1x	6K16027	11/16/06 10:59	11/17/06 12:09	
Chromium	"	0.00860	0.000260	0.00100	"	"	"	"	"	
Copper	"	0.000160	0.000150	0.00100	"	"	"	"	"	J
Lead	"	ND	0.000140	0.00100	"	"	"	"	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0431-01 (SKY-AOJ-EFF-111506)		Water		Sampled: 11/15/06 12:50						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6K15075	11/15/06 19:47	11/15/06 21:03	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			100%		70 - 130 %	"				"
Toluene-d8			104%		75 - 125 %	"				"
4-BFB			98.5%		75 - 125 %	"				"
BPK0431-04 (SKY-AOJ-TB-111506)		Water		Sampled: 11/15/06 15:25						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6K15075	11/15/06 19:47	11/15/06 20:18	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			103%		70 - 130 %	"				"
Toluene-d8			103%		75 - 125 %	"				"
4-BFB			99.0%		75 - 125 %	"				"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0431-01 (SKY-AOJ-EFF-111506)		Water		Sampled: 11/15/06 12:50						
Acenaphthene	EPA 8270C-HV1	ND	0.00256	0.0943	ug/l	1x	6K15038	11/15/06 17:40	11/29/06 20:34	
Acenaphthylene	"	ND	0.00238	0.0943	"	"	"	"	"	
Anthracene	"	ND	0.00268	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00149	0.00943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00297	0.00943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00194	0.00943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00175	0.00943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00279	0.0943	"	"	"	"	"	
Chrysene	"	ND	0.00177	0.00943	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00236	0.00943	"	"	"	"	"	
Fluoranthene	"	ND	0.00185	0.0943	"	"	"	"	"	
Fluorene	"	ND	0.00337	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00232	0.00943	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00210	0.0943	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00215	0.0943	"	"	"	"	"	
Naphthalene	"	0.0175	0.00395	0.0943	"	"	"	"	"	J
Phenanthrene	"	ND	0.00244	0.0943	"	"	"	"	"	
Pyrene	"	ND	0.00230	0.0943	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12		75.2%		20 - 125 %	"					
1-Methylnaphthalene-d10		90.7%		39 - 125 %	"					

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 12/13/06 12:56
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Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0431-01 (SKY-AOJ-EFF-111506)		Water			Sampled: 11/15/06 12:50					
pH	EPA 150.1	10.9	—		pH Units	1x	6K15078	11/15/06 22:50	11/15/06 22:50	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6K16024

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K16024-BLK1)														Extracted: 11/16/06 10:48
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.0400	0.250	mg/l	1x	--	--	--	--	--	--	11/18/06 03:23	
Lube Oil Range Hydrocarbons	"	ND	0.0900	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 112%		Limits: 53-125%	"								11/18/06 03:23	
Octacosane		103%		68-125%	"								"	
LCS (6K16024-BS1)														Extracted: 11/16/06 10:48
Diesel Range Hydrocarbons	NWTPH-Dx	1.93	0.0400	0.250	mg/l	1x	--	2.00	96.5%	(61-132)	--	--	11/18/06 03:53	
Surrogate(s): 2-FBP		Recovery: 117%		Limits: 53-125%	"								11/18/06 03:53	
Octacosane		102%		68-125%	"								"	
LCS Dup (6K16024-BSD1)														Extracted: 11/16/06 10:48
Diesel Range Hydrocarbons	NWTPH-Dx	2.03	0.0400	0.250	mg/l	1x	--	2.00	102%	(61-132)	5.05%	(40)	11/18/06 04:22	
Surrogate(s): 2-FBP		Recovery: 123%		Limits: 53-125%	"								11/18/06 04:22	
Octacosane		109%		68-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: **6K16027**

Water Preparation Method: **EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K16027-BLK1)														Extracted: 11/16/06 10:59
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	-	-	-	-	-	-	11/17/06 10:53	
Chromium	"	ND	0.000260	0.00100	"	"	-	-	-	-	-	-	"	
Lead	"	ND	0.000140	0.00100	"	"	-	-	-	-	-	-	"	
Copper	"	0.000320	0.000150	0.00100	"	"	-	-	-	-	-	-	"	
LCS (6K16027-BS1)														Extracted: 11/16/06 10:59
Arsenic	EPA 200.8	0.0799	0.000430	0.00100	mg/l	1x	-	0.0800	99.9%	(85-115)	-	-	11/17/06 10:58	
Chromium	"	0.0813	0.000260	0.00100	"	"	-	"	102%	"	-	-	"	
Copper	"	0.0816	0.000150	0.00100	"	"	-	"	102%	"	-	-	"	
Lead	"	0.0809	0.000140	0.00100	"	"	-	"	101%	"	-	-	"	
Duplicate (6K16027-DUP1)														QC Source: BPK0361-02RE1 Extracted: 11/16/06 10:59
Chromium	EPA 200.8	0.00107	0.000260	0.00100	mg/l	1x	0.00113	-	-	-	5.45% (20)	-	11/17/06 11:16	
Copper	"	0.00480	0.000150	0.00100	"	"	0.00491	-	-	-	2.27%	"	"	
Lead	"	0.00132	0.000140	0.00100	"	"	0.00137	-	-	-	3.72%	"	"	
Arsenic	"	ND	0.000430	0.00100	"	"	ND	-	-	-	NR	"	"	
Matrix Spike (6K16027-MS1)														QC Source: BPK0361-02RE1 Extracted: 11/16/06 10:59
Arsenic	EPA 200.8	0.0795	0.000430	0.00100	mg/l	1x	ND	0.0800	99.4%	(75-125)	-	-	11/17/06 11:04	
Chromium	"	0.0809	0.000260	0.00100	"	"	0.00113	"	99.7%	"	-	-	"	
Copper	"	0.0856	0.000150	0.00100	"	"	0.00491	"	101%	"	-	-	"	
Lead	"	0.0814	0.000140	0.00100	"	"	0.00137	"	100%	"	-	-	"	
Matrix Spike (6K16027-MS2)														QC Source: BPK0431-01 Extracted: 11/16/06 10:59
Copper	EPA 200.8	0.0787	0.000150	0.00100	mg/l	1x	0.000160	0.0800	98.2%	(75-125)	-	-	11/17/06 11:10	
Lead	"	0.0787	0.000140	0.00100	"	"	ND	"	98.4%	"	-	-	"	
Arsenic	"	0.101	0.000430	0.00100	"	"	0.0210	"	100%	"	-	-	"	
Chromium	"	0.0872	0.000260	0.00100	"	"	0.00860	"	98.2%	"	-	-	"	

TestAmerica - Seattle, WA

Kate Hancy

Kate Hancy, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: **6K15075**

Water Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (6K15075-BLK1)

Extracted: 11/15/06 15:47

Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	—	—	—	—	—	—	11/15/06 19:48	
Ethylbenzene	"	ND	0.125	0.500	"	"	—	—	—	—	—	—	"	
Toluene	"	ND	0.127	0.500	"	"	—	—	—	—	—	—	"	
Total Xylenes	"	ND	0.298	3.00	"	"	—	—	—	—	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 101% Limits: 70-130% " 11/15/06 19:48</i>														
<i>Toluene-d8 104% 75-125% " "</i>														
<i>4-BFB 99.5% 75-125% " "</i>														

LCS (6K15075-BS1)

Extracted: 11/15/06 15:47

Benzene	EPA 8260B	18.2	0.114	0.500	ug/l	1x	—	20.0	91.0%	(80-120)	—	—	11/15/06 17:44	
Ethylbenzene	"	19.3	0.125	0.500	"	"	—	"	96.5%	(75-125)	—	—	"	
Toluene	"	19.3	0.127	0.500	"	"	—	"	96.5%	"	—	—	"	
Total Xylenes	"	59.2	0.298	3.00	"	"	—	60.0	98.7%	"	—	—	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.5% Limits: 70-130% " 11/15/06 17:44</i>														
<i>Toluene-d8 102% 75-125% " "</i>														
<i>4-BFB 100% 75-125% " "</i>														

LCS Dup (6K15075-BSD1)

Extracted: 11/15/06 15:47

Benzene	EPA 8260B	17.4	0.114	0.500	ug/l	1x	—	20.0	87.0%	(80-120)	4.49% (20)	11/15/06 18:20		
Ethylbenzene	"	18.4	0.125	0.500	"	"	—	"	92.0%	(75-125)	4.77%	"	"	
Toluene	"	18.2	0.127	0.500	"	"	—	"	91.0%	"	5.87%	"	"	
Total Xylenes	"	55.9	0.298	3.00	"	"	—	60.0	93.2%	"	5.73%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.0% Limits: 70-130% " 11/15/06 18:20</i>														
<i>Toluene-d8 102% 75-125% " "</i>														
<i>4-BFB 99.5% 75-125% " "</i>														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 12/13/06 12:56
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Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6K15038 **Water Preparation Method:** EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K15038-BLK4)														
Extracted: 11/15/06 12:40														
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	11/29/06 14:29	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12		Recovery:	82.5%	Limits: 20-125%		"								11/29/06 14:29
1-Methylnaphthalene-d10			82.1%	39-125%		"								"

LCS (6K15038-BS3)													
Extracted: 11/15/06 12:40													
Acenaphthene	EPA 8270C-HVI	16.1	0.0271	1.00	ug/l	10x	--	20.0	80.5%	(44-125)	--	--	11/29/06 15:02
Acenaphthylene	"	16.2	0.0252	1.00	"	"	--	"	81.0%	(51-125)	--	--	"
Anthracene	"	18.1	0.0284	1.00	"	"	--	"	90.5%	(50-125)	--	--	"
Benzo (a) anthracene	"	17.9	0.0158	0.100	"	"	--	"	89.5%	"	--	--	"
Benzo (a) pyrene	"	18.3	0.0315	0.100	"	"	--	"	91.5%	(47-125)	--	--	"
Benzo (b) fluoranthene	"	16.7	0.0206	0.100	"	"	--	"	83.5%	(50-125)	--	--	"
Benzo (k) fluoranthene	"	20.2	0.0186	0.100	"	"	--	"	101%	(46-125)	--	--	"
Benzo (ghi) perylene	"	18.8	0.0296	1.00	"	"	--	"	94.0%	(49-125)	--	--	"
Chrysene	"	18.4	0.0188	0.100	"	"	--	"	92.0%	(53-125)	--	--	"
Dibenz (a,h) anthracene	"	18.5	0.0250	0.100	"	"	--	"	92.5%	(47-125)	--	--	"
Fluoranthene	"	17.9	0.0196	1.00	"	"	--	"	89.5%	(55-125)	--	--	"
Fluorene	"	16.7	0.0357	1.00	"	"	--	"	83.5%	(52-125)	--	--	"
Indeno (1,2,3-cd) pyrene	"	18.6	0.0246	0.100	"	"	--	"	93.0%	(49-125)	--	--	"
1-Methylnaphthalene	"	15.7	0.0223	1.00	"	"	--	"	78.5%	(37-125)	--	--	"
2-Methylnaphthalene	"	16.8	0.0228	1.00	"	"	--	"	84.0%	(40-125)	--	--	"
Naphthalene	"	15.4	0.0419	1.00	"	"	--	"	77.0%	(42-125)	--	--	"

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: **6K15038**

Water Preparation Method: **EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6K15038-BS3)														
Extracted: 11/15/06 12:40														
Phenanthrene	EPA 8270C-HV1	16.4	0.0259	1.00	ug/l	10x	—	20.0	82.0%	(47-125)	—	—	11/29/06 15:02	
Pyrene	"	18.4	0.0244	1.00	"	"	—	"	92.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 91.8%														
Limits: 20-125%														
39-125%														
11/29/06 15:02														

LCS Dup (6K15038-BSD3)

Extracted: 11/15/06 12:40

Acenaphthene	EPA 8270C-HV1	17.2	0.0271	1.00	ug/l	10x	—	20.0	86.0%	(44-125)	6.61%	(35)	11/29/06 15:35	
Acenaphthylene	"	17.3	0.0252	1.00	"	"	—	"	86.5%	(51-125)	6.57%	"	"	
Anthracene	"	18.4	0.0284	1.00	"	"	—	"	92.0%	(50-125)	1.64%	"	"	
Benzo (a) anthracene	"	17.7	0.0158	0.100	"	"	—	"	88.5%	"	1.12%	"	"	
Benzo (a) pyrene	"	18.4	0.0315	0.100	"	"	—	"	92.0%	(47-125)	0.545%	"	"	
Benzo (b) fluoranthene	"	17.1	0.0206	0.100	"	"	—	"	85.5%	(50-125)	2.37%	"	"	
Benzo (k) fluoranthene	"	20.0	0.0186	0.100	"	"	—	"	100%	(46-125)	0.995%	"	"	
Benzo (ghi) perylene	"	19.1	0.0296	1.00	"	"	—	"	95.5%	(49-125)	1.58%	"	"	
Chrysene	"	18.4	0.0188	0.100	"	"	—	"	92.0%	(53-125)	0.00%	"	"	
Dibenz (a,h) anthracene	"	18.8	0.0250	0.100	"	"	—	"	94.0%	(47-125)	1.61%	"	"	
Fluoranthene	"	18.1	0.0196	1.00	"	"	—	"	90.5%	(55-125)	1.11%	"	"	
Fluorene	"	17.8	0.0357	1.00	"	"	—	"	89.0%	(52-125)	6.38%	"	"	
Indeno (1,2,3-cd) pyrene	"	18.9	0.0246	0.100	"	"	—	"	94.5%	(49-125)	1.60%	"	"	
1-Methylnaphthalene	"	15.9	0.0223	1.00	"	"	—	"	79.5%	(37-125)	1.27%	"	"	
2-Methylnaphthalene	"	17.1	0.0228	1.00	"	"	—	"	85.5%	(40-125)	1.77%	"	"	
Naphthalene	"	16.0	0.0419	1.00	"	"	—	"	80.0%	(42-125)	3.82%	"	"	
Phenanthrene	"	17.0	0.0259	1.00	"	"	—	"	85.0%	(47-125)	3.59%	"	"	
Pyrene	"	18.8	0.0244	1.00	"	"	—	"	94.0%	"	2.15%	"	"	
Surrogate(s): Benzo (a) pyrene-d12														
1-Methylnaphthalene-d10														
Recovery: 83.2%														
Limits: 20-125%														
39-125%														
11/29/06 15:35														

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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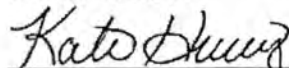
The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 12/13/06 12:56
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Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6K15078 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6K15078-DUP1)			QC Source: BPK0431-01					Extracted: 11/15/06 22:50						
pH	EPA 150.1	10.9	---		pH Units	1x	10.9	--	-	-	0.00% (10)		11/15/06 22:50	

TestAmerica - Seattle, WA



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

12/13/06 12:56

Notes and Definitions

Report Specific Notes:

- D-06 - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- Q-41 - This analyte had a high bias in the associated calibration verification standard.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY

6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A

SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123

001

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD (A)

YEAR MO DAY

YEAR MO DAY

FROM

2006 11 01

TO 2006 11 30

NOTE: Read instructions before completing this form.

Discharge Location

Lat 47° 42' 37" N

Long 121° 21' 44" W

NO DISCHARGE

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****	Not Service	GPM	*****	*****	*****	0	Cont.	meter
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****	174	GPM	*****	*****	*****	0	Cont.	meter
	Permit Requirement	*****	500		*****	*****	*****		CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****	40.1	0	7/7	grab
	Permit Requirement	*****	*****		*****	*****	0.1		07/07	GRAB
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****	No	0	7/7	Visual
	Permit Requirement	*****	*****		*****	*****	REPORT		07/07	VISUAL
PH	Sample Measurement	*****	*****	***	7.38	*****	7.38	0	1/7	grab
	Permit Requirement	*****	*****		6.5	*****	8.5		01/07	GRAB
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***	NR	*****	*****	NR		grab
	Permit Requirement	*****	*****		8	*****	*****		01/07	GRAB
BACKGROUND TURBIDITY (1)	Sample Measurement	*****	ND	NTU	*****	*****	*****	0	1/7	grab
	Permit Requirement	*****	REPORT		*****	*****	*****		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Bruce Sheppard
Manager Environmental Remediation
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

(206) 625-6035
AREA NUMBER
CODE

DATE

2006 12 14
YEAR MO DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

ND= Not detected above method reporting limit

NR- Not required after 5 weeks of discharge monitoring.

(A) No discharge after 11/5/06

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD <u>(A)</u>					
YEAR	MO	DAY	YEAR	MO	DAY
2006	11	01	2006	11	30

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****	ND	NTU	*****	*****	*****	***	0	1/7	grab
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****	—	NTU	*****	*****	*****	***	0	1/7	grab
	Permit Requirement	*****	5		*****	*****	*****			01/07	GRAB
BENZENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	1.2			01/07	GRAB
BTEX	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	100			01/07	GRAB
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****	410	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	REPORT			01/07	GRAB
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	208			01/07	GRAB
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	12.5			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE	DATE
<u>Bruce Sheppard</u> <u>Manager Environmental Remediation</u> TYPED OR PRINTED		<u>(206) 625-6035</u> AREA NUMBER CODE	<u>2006/12/14</u> YEAR MO DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

ND=Not detected above method reporting limit (MRL)

TR - MEANS TOTAL RECOVERABLE

(A) No discharge after 11/5/06

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

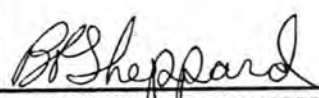
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD (A)							
YEAR		MO	DAY	YEAR		MO	DAY
2006		11	01	2006		11	30

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****	1.25	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	360			01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	2400			01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	640			01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	160			01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	480			01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement	*****	*****		*****	*****	0.01			01/07	GRAB

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<u>Bruce Sheppard</u> Manager Environmental Remediation TYPED OR PRINTED			AREA	NUMBER	
			CODE		YEAR MO DA
					2006 12 1

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TR - MEANS TOTAL RECOVERABLE

ND = Not detected above method reporting limit (MRL).

(A) No discharge after 11/5/86

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

6374

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD (A)					
YEAR	MO	DAY	YEAR	MO	DAY
2006	11	01	2006	11	30

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE	

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			Units	No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum				
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						0.01			01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						0.01			01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						0.01			01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						0.01			01/07	GRAB
INDENO (1, 2, 3-cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						0.01			01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						643			01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****	ND	ug/L	0	1/7	grab
	Permit Requirement						90.2			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE	DATE
Bruce Sheppard Manager Environmental Remediation TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	2006 12 19
		AREA NUMBER CODE	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ND= Not detected above method reporting limit (MRL).

(A) No discharge after 11/5/06.

November 30, 2006

Stephen Howard
The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

RE: BNSF-Skykomish Levee Water

Enclosed are the results of analyses for samples received by the laboratory on 11/02/06 16:46.
The following list is a summary of the Work Orders contained in this report, generated on 11/30/06
16:54.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPK0052	BNSF-Skykomish Levee Wate	BN050-19390-220

TestAmerica - Seattle, WA

Kate Hancy

Kate Hancy, Project Manager

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of custody document. This analytical report shall not be reproduced except in full,
without the written approval of the laboratory.*



The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/30/06 16:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SKY-EFF-110206	BPK0052-01	Water	11/02/06 09:30	11/02/06 16:46
SKY-INF-110206	BPK0052-02	Water	11/02/06 09:15	11/02/06 16:46
SKY-TB-110206	BPK0052-03	Water	11/02/06 09:00	11/02/06 16:46
SKY-BKGD-110206	BPK0052-04	Water	11/02/06 08:20	11/02/06 16:46
SKY-MID-110206	BPK0052-05	Water	11/02/06 09:20	11/02/06 16:46

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/30/06 16:54

Analytical Case Narrative

TestAmerica - Seattle, WA

BPK0052

SAMPLE RECEIPT

The samples were received November 2nd, 2006 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 8.3 degrees Celsius. No anomalies were associated with sample receipt and check-in.

PREPARATIONS AND ANALYSIS

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up): There was no MS/MSD analyzed due to insufficient sample volume. No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Total Metals by EPA 200 Series Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Hydrocarbons by GC/MS with High Volume Injection: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods: No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/30/06 16:54

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0052-01 (SKY-EFF-110206)		Water		Sampled: 11/02/06 09:30						
Arsenic	EPA 200.8	0.00125	0.000430	0.00100	mg/l	1x	6K06032	11/06/06 12:34	11/07/06 12:38	
Lead	*	ND	0.000140	0.00100	*	*	*	*	*	

TestAmerica - Seattle, WA

Kate Hancy

Kate Hancy, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	11/30/06 16:54
Seattle, WA 98134	Project Manager: Stephen Howard	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0052-01 (SKY-EFF-110206)		Water		Sampled: 11/02/06 09:30						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6K07059	11/07/06 08:40	11/07/06 19:09	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		98.0%	70 - 130 %	"					
	Toluene-d8		98.5%	75 - 125 %	"					
	4-BFB		102%	75 - 125 %	"					
BPK0052-03 (SKY-TB-110206)		Water		Sampled: 11/02/06 09:00						
Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	6K07059	11/07/06 08:40	11/07/06 18:42	
Ethylbenzene	"	ND	0.125	0.500	"	"	"	"	"	
Toluene	"	ND	0.127	0.500	"	"	"	"	"	
Total Xylenes	"	ND	0.298	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		98.5%	70 - 130 %	"					
	Toluene-d8		99.5%	75 - 125 %	"					
	4-BFB		100%	75 - 125 %	"					

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/30/06 16:54

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0052-01 (SKY-EFF-110206)										
Acenaphthene	EPA 8270C-HV1	ND	0.00258	0.0952	ug/l	1x	6K07024	11/07/06 10:00	11/15/06 14:32	
Acenaphthylene	"	ND	0.00240	0.0952	"	"	"	"	"	
Anthracene	"	ND	0.00270	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	0.00150	0.00952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	0.00300	0.00952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	0.00196	0.00952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	0.00177	0.00952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	0.00282	0.0952	"	"	"	"	"	
Chrysene	"	ND	0.00179	0.00952	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	0.00238	0.00952	"	"	"	"	"	
Fluoranthene	"	ND	0.00187	0.0952	"	"	"	"	"	
Fluorene	"	ND	0.00340	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00234	0.00952	"	"	"	"	"	
1-Methylnaphthalene	"	ND	0.00212	0.0952	"	"	"	"	"	
2-Methylnaphthalene	"	ND	0.00217	0.0952	"	"	"	"	"	
Naphthalene	"	ND	0.00399	0.0952	"	"	"	"	"	
Phenanthrene	"	ND	0.00247	0.0952	"	"	"	"	"	
Pyrene	"	ND	0.00232	0.0952	"	"	"	"	"	
Surrogate(s): Benzo (a) pyrene-d12		64.5%		20 - 125 %	"					
1-Methylnaphthalene-d10		83.4%		39 - 125 %	"					

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	11/30/06 16:54
Seattle, WA 98134	Project Manager: Stephen Howard	

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0052-01 (SKY-EFF-110206)		Water			Sampled: 11/02/06 09:30					
pH	EPA 150.1	7.38	—		pH Units	1x	6K10034	11/02/06 17:50	11/02/06 17:50	
Turbidity	EPA 180.1	ND	—	1.00	NTU	*	6K03041	11/03/06 09:20	11/03/06 09:20	
BPK0052-04 (SKY-BKGD-110206)		Water			Sampled: 11/02/06 08:20					
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	6K03041	11/03/06 09:20	11/03/06 09:20	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard	Report Created: 11/30/06 16:54
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Extractable Petroleum Hydrocarbons

TestAmerica - Nashville, TN

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPK0052-01 (SKY-EFF-110206)		Water		Sampled: 11/02/06 09:30						
Diesel	NWTPH-Dx	ND	—	95.2	ug/L	1x	6111684	11/09/06 08:35	11/12/06 21:05	
Motor Oil	*	ND	—	95.2	"	"	"	"	"	
Surrogate(s): o-Terphenyl		64%		33 - 147 %		"				
BPK0052-02 (SKY-INF-110206)		Water		Sampled: 11/02/06 09:15						
Diesel	NWTPH-Dx	308	—	95.2	ug/L	1x	6111684	11/09/06 08:35	11/12/06 21:24	
Motor Oil	*	102	—	95.2	"	"	"	"	"	
Surrogate(s): o-Terphenyl		76%		33 - 147 %		"				
BPK0052-05 (SKY-MID-110206)		Water		Sampled: 11/02/06 09:20						
Diesel	NWTPH-Dx	104	—	94.8	ug/L	1x	6111684	11/09/06 08:35	11/12/06 21:42	
Motor Oil	*	ND	—	94.8	"	"	"	"	"	
Surrogate(s): o-Terphenyl		71%		33 - 147 %		"				

TestAmerica - Seattle, WA

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The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water
Project Number: BN050-19390-220
Project Manager: Stephen Howard

Report Created:
11/30/06 16:54

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K06032

Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K06032-BLK1)										Extracted: 11/06/06 12:34				
Arsenic	EPA 200.8	ND	0.000430	0.00100	mg/l	1x	--	--	--	--	--	--	11/07/06 11:39	
Lead	"	0.000200	0.000140	0.00100	"	"	--	--	--	--	--	--	"	J
LCS (6K06032-BS1)										Extracted: 11/06/06 12:34				
Lead	EPA 200.8	0.0778	0.000140	0.00100	mg/l	1x	--	0.0800	97.2%	(85-115)	--	--	11/07/06 12:02	
Arsenic	"	0.0803	0.000430	0.00100	"	"	--	"	100%	"	--	--	"	
Duplicate (6K06032-DUP1)										QC Source: BPK0036-01 Extracted: 11/06/06 12:34				
Arsenic	EPA 200.8	0.00159	0.000430	0.00100	mg/l	1x	0.00145	--	--	--	9.21% (20)	--	11/07/06 12:20	
Lead	"	0.00156	0.000140	0.00100	"	"	0.00153	--	--	--	1.94% "	--	"	
Matrix Spike (6K06032-MS1)										QC Source: BPK0036-01 Extracted: 11/06/06 12:34				
Lead	EPA 200.8	0.0797	0.000140	0.00100	mg/l	1x	0.00153	0.0800	97.7%	(75-125)	--	--	11/07/06 12:08	
Arsenic	"	0.0820	0.000430	0.00100	"	"	0.00145	"	101%	"	--	--	"	
Matrix Spike (6K06032-MS2)										QC Source: BPK0036-02 Extracted: 11/06/06 12:34				
Arsenic	EPA 200.8	0.0835	0.000430	0.00100	mg/l	1x	0.00117	0.0800	103%	(75-125)	--	--	11/07/06 12:14	
Lead	"	0.0810	0.000140	0.00100	"	"	0.000250	"	101%	"	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/30/06 16:54

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K07059

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (6K07059-BLK1)

Extracted: 11/07/06 08:40

Benzene	EPA 8260B	ND	0.114	0.500	ug/l	1x	--	--	--	--	--	--	11/07/06 18:16	
Ethylbenzene	"	ND	0.125	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.127	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	0.298	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4	Recovery:	100%	Limits:	70-130%	"								11/07/06 18:16	
Toluene-d8		98.5%		75-125%	"								"	
4-BFB		101%		75-125%	"								"	

LCS (6K07059-BS1)

Extracted: 11/07/06 08:40

Benzene	EPA 8260B	19.1	0.114	0.500	ug/l	1x	--	20.0	95.5%	(80-120)	--	--	11/07/06 09:58	
Ethylbenzene	"	19.4	0.125	0.500	"	"	--	"	97.0%	(75-125)	--	--	"	
Toluene	"	19.8	0.127	0.500	"	"	--	"	99.0%	"	--	--	"	
Total Xylenes	"	63.0	0.298	3.00	"	"	--	60.0	105%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4	Recovery:	94.5%	Limits:	70-130%	"								11/07/06 09:58	
Toluene-d8		98.5%		75-125%	"								"	
4-BFB		103%		75-125%	"								"	

LCS Dup (6K07059-BSD1)

Extracted: 11/07/06 08:40

Benzene	EPA 8260B	19.3	0.114	0.500	ug/l	1x	--	20.0	96.5%	(80-120)	1.04% (20)	--	11/07/06 10:25	
Ethylbenzene	"	19.4	0.125	0.500	"	"	--	"	97.0%	(75-125)	0.00%	"	"	
Toluene	"	19.7	0.127	0.500	"	"	--	"	98.5%	"	0.506%	"	"	
Total Xylenes	"	62.4	0.298	3.00	"	"	--	60.0	104%	"	0.957%	"	"	
Surrogate(s): 1,2-DCA-d4	Recovery:	95.5%	Limits:	70-130%	"								11/07/06 10:25	
Toluene-d8		96.0%		75-125%	"								"	
4-BFB		102%		75-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc. 1011 SW Klickitat Way, Suite 207 Seattle, WA 98134	Project Name: BNSF-Skykomish Levee Water Project Number: BN050-19390-220 Project Manager: Stephen Howard Report Created: 11/30/06 16:54
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Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6K07024 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K07024-BLK1)														Extracted: 11/07/06 10:00
Acenaphthene	EPA 8270C-HVI	ND	0.00271	0.100	ug/l	1x	--	--	--	--	--	--	11/15/06 11:05	
Acenaphthylene	"	ND	0.00252	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	0.00284	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	0.00158	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	0.00315	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	0.00206	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	0.00186	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	0.00296	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	0.00188	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	0.00250	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	0.00196	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	0.00357	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	0.00246	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	0.00223	0.100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	0.00228	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	0.00419	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	0.00926	0.00259	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	0.00244	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Benzo (a) pyrene-d12 Recovery: 58.0% Limits: 20-125% "														11/15/06 11:05
1-Methylnaphthalene-d10 82.4% 30-125% "														

LCS (6K07024-BS2)														Extracted: 11/07/06 10:00
Acenaphthene	EPA 8270C-HVI	15.2	0.0271	1.00	ug/l	10x	--	20.0	76.0%	(44-125)	--	--	11/15/06 11:40	
Acenaphthylene	"	15.5	0.0252	1.00	"	"	--	"	77.5%	(51-125)	--	--	"	
Anthracene	"	16.7	0.0284	1.00	"	"	--	"	83.5%	(50-125)	--	--	"	
Benzo (a) anthracene	"	16.5	0.0158	0.100	"	"	--	"	82.5%	"	--	--	"	
Benzo (a) pyrene	"	17.1	0.0315	0.100	"	"	--	"	85.5%	(47-125)	--	--	"	
Benzo (b) fluoranthene	"	17.7	0.0206	0.100	"	"	--	"	88.5%	(50-125)	--	--	"	
Benzo (k) fluoranthene	"	18.7	0.0186	0.100	"	"	--	"	93.5%	(46-125)	--	--	"	
Benzo (ghi) perylene	"	15.5	0.0296	1.00	"	"	--	"	77.5%	(49-125)	--	--	"	
Chrysene	"	17.2	0.0188	0.100	"	"	--	"	86.0%	(53-125)	--	--	"	
Dibenz (a,h) anthracene	"	14.7	0.0250	0.100	"	"	--	"	73.5%	(47-125)	--	--	"	
Fluoranthene	"	16.1	0.0196	1.00	"	"	--	"	80.5%	(55-125)	--	--	"	
Fluorene	"	15.8	0.0357	1.00	"	"	--	"	79.0%	(52-125)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	15.0	0.0246	0.100	"	"	--	"	75.0%	(49-125)	--	--	"	
1-Methylnaphthalene	"	14.2	0.0223	1.00	"	"	--	"	71.0%	(37-125)	--	--	"	
2-Methylnaphthalene	"	14.9	0.0228	1.00	"	"	--	"	74.5%	(40-125)	--	--	"	
Naphthalene	"	13.1	0.0419	1.00	"	"	--	"	65.5%	(42-125)	--	--	"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/30/06 16:54

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K07024

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS (6K07024-BS2)

Extracted: 11/07/06 10:00

Phenanthrene	EPA 8270C-HVI	15.7	0.0259	1.00	ug/l	10x	—	20.0	78.5%	(47-125)	—	—	11/15/06 11:40	
Pyrene	"	18.8	0.0244	1.00	"	"	—	"	94.0%	"	—	—	"	
Surrogate(s): Benzo (a) pyrene-d12	Recovery:	82.7%	Limits:	20-125%	"								11/15/06 11:40	
1-Methylnaphthalene-d10		96.6%		39-125%	"								"	

LCS Dup (6K07024-BSD2)

Extracted: 11/07/06 10:00

Acenaphthene	EPA 8270C-HVI	16.0	0.0271	1.00	ug/l	10x	—	20.0	80.0%	(44-125)	5.13%	(35)	11/15/06 12:14	
Acenaphthylene	"	16.5	0.0252	1.00	"	"	—	"	82.5%	(51-125)	6.25%	"	"	
Anthracene	"	17.4	0.0284	1.00	"	"	—	"	87.0%	(50-125)	4.11%	"	"	
Benzo (a) anthracene	"	17.1	0.0158	0.100	"	"	—	"	85.5%	"	3.57%	"	"	
Benzo (a) pyrene	"	18.0	0.0315	0.100	"	"	—	"	90.0%	(47-125)	5.13%	"	"	
Benzo (b) fluoranthene	"	19.0	0.0206	0.100	"	"	—	"	95.0%	(50-125)	7.08%	"	"	
Benzo (k) fluoranthene	"	19.7	0.0186	0.100	"	"	—	"	98.5%	(46-125)	5.21%	"	"	
Benzo (ghi) perylene	"	15.9	0.0296	1.00	"	"	—	"	79.5%	(49-125)	2.55%	"	"	
Chrysene	"	18.5	0.0188	0.100	"	"	—	"	92.5%	(53-125)	7.28%	"	"	
Dibenz (a,h) anthracene	"	14.6	0.0250	0.100	"	"	—	"	73.0%	(47-125)	0.683%	"	"	
Fluoranthene	"	17.2	0.0196	1.00	"	"	—	"	86.0%	(55-125)	6.61%	"	"	
Fluorene	"	16.6	0.0357	1.00	"	"	—	"	83.0%	(52-125)	4.94%	"	"	
Indeno (1,2,3-cd) pyrene	"	15.3	0.0246	0.100	"	"	—	"	76.5%	(49-125)	1.98%	"	"	
1-Methylnaphthalene	"	16.1	0.0223	1.00	"	"	—	"	80.5%	(37-125)	12.5%	"	"	
2-Methylnaphthalene	"	17.0	0.0228	1.00	"	"	—	"	85.0%	(40-125)	13.2%	"	"	
Naphthalene	"	14.9	0.0419	1.00	"	"	—	"	74.5%	(42-125)	12.9%	"	"	
Phenanthrene	"	16.8	0.0259	1.00	"	"	—	"	84.0%	(47-125)	6.77%	"	"	
Pyrene	"	20.1	0.0244	1.00	"	"	—	"	100%	"	6.68%	"	"	
Surrogate(s): Benzo (a) pyrene-d12	Recovery:	84.0%	Limits:	20-125%	"								11/15/06 12:14	
1-Methylnaphthalene-d10		105%		39-125%	"								"	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.	Project Name: BNSF-Skykomish Levee Water	Report Created:
1011 SW Klickitat Way, Suite 207	Project Number: BN050-19390-220	11/30/06 16:54
Seattle, WA 98134	Project Manager: Stephen Howard	

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6K03041 **Water Preparation Method:** General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K03041-BLK1)										Extracted: 11/03/06 09:20				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	—	—	—	—	—	—	11/03/06 09:20	
LCS (6K03041-BS1)										Extracted: 11/03/06 09:20				
Turbidity	EPA 180.1	14.3	—	1.00	NTU	1x	—	14.3	100%	(90-110)	—	—	11/03/06 09:20	
Duplicate (6K03041-DUP1)										QC Source: BPK0052-01 Extracted: 11/03/06 09:20				
Turbidity	EPA 180.1	ND	—	1.00	NTU	1x	ND	—	—	—	2.99%	(20)	11/03/06 09:20	

QC Batch: 6K10034 **Water Preparation Method:** General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6K10034-DUP1)										QC Source: BPK0052-01 Extracted: 11/02/06 17:50				
pH	EPA 150.1	7.37	—		pH Units	1x	7.38	—	—	—	0.136%	(10)	11/02/06 17:50	

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
 Seattle, WA 98134

Project Name: BNSF-Skykomish Levee Water

Project Number: BN050-19390-220

Project Manager: Stephen Howard

Report Created:

11/30/06 16:54

Extractable Petroleum Hydrocarbons - Laboratory Quality Control Results

TestAmerica - Nashville, TN

QC Batch: 6111684

Water Preparation Method: EPA 3510C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6111684-BLK1)										Extracted: 11/09/06 08:35				
Diesel	NWTPH-Dx	ND	—	100	ug/L	1x	—	—	—	—	—	—	11/11/06 18:10	
Motor Oil	"	ND	—	100	"	"	—	—	—	—	—	—	"	
Surrogate(s): o-Terphenyl		Recovery: 83%	Limits: 33-147%		"						11/11/06 18:10			
LCS (6111684-BS1)										Extracted: 11/09/06 08:35				
Diesel	NWTPH-Dx	798	—	100	ug/L	1x	—	1000	80%	(35-122)	—	—	11/11/06 18:26	
Surrogate(s): o-Terphenyl		Recovery: 84%	Limits: 33-147%		"						11/11/06 18:26			

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

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The RETEC Group, Inc.

1011 SW Klickitat Way, Suite 207
Seattle, WA 98134

Project Name: **BNSF-Skykomish Levee Water**

Project Number: **BN050-19390-220**

Project Manager: **Stephen Howard**

Report Created:

11/30/06 16:54

Notes and Definitions

Report Specific Notes:

J - Estimated value.

Laboratory Reporting Conventions:

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

TestAmerica - Seattle, WA

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



CHAIN OF CUSTODY REPORT

Work Order #: **BPK0052**

CLIENT: BNSF RAILWAY COMPANY		INVOICE TO: BNSF RAILWAY	
REPORT TO: Steve Howard - RETEL		P.O. NUMBER: TTΦ1ΦΦ - GΦΦ	
ADDRESS: 1011 SW Klickitat Way, Ste. #207 Seattle, WA 98134			
PHONE: 206-624-9349 FAX: 206-624-2839			
PROJECT NAME: SKYKOMISH NPDES		PRESERVATIVE: HCl - HCl - HCl - HCl	
PROJECT NUMBER: BND50-1939Φ - 22Φ		REQUESTED ANALYSES:	
SAMPLED BY: D. Metz			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	ANALYSIS	TURNAROUND REQUEST
SKY-NPDES-EFF-110206	11-02-06 0930	X X X X X X	7 9 4 3 2 1 <1
SKY-NPDES-INF-110206	11-02-06 0915	X	5 4 3 2 1 <1
SKY-NPDES-TB-110206	11-02-06 0820	X	OTHER Specify:
SKY-NPDES-BKGD-110206	11-02-06 0920	X	* Turnaround Requests less than standard may incur Rush Charge.
SKY-NPDES-MIO-110206	11-02-06 0920	X	MATRIX (W, S, O)
			# OF CONT.
			LOCATION / COMMENTS
			TA WO ID
			W 9 01
			W 2 02
			W 1 03
			W 1 04
			W 2 05
RELEASED BY: Dennis Metz		DATE: 11-2-06	RECEIVED BY: Engh J. Matthews
PRINT NAME: Dennis Metz		TIME: 1500 Hrs	PRINT NAME: Engh J. Matthews
RELEASED BY: Dennis Metz		DATE: 11-2-06	RECEIVED BY: Shannon Boep
PRINT NAME: Dennis Metz		TIME: 1500 Hrs	PRINT NAME: Shannon Boep
ADDITIONAL REMARKS:		FIRM: TA	
COC REV 152006		PAGE 1 OF 1	

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
 Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.



206.624. 9349 Phone
206.624. 2839 Fax
www.retec.com

Letter of Transmittal

TO: Chris Smith, Washington Dept of Ecology DATE: January 15, 2007
BNSF Skykomish Cleanup Site Discharge
RE: Monitoring Report PROJECT NO: BN050-19390-210

PLEASE FIND: ☒ Attached ☐ Under separate cover via: _____
☐ Copy of Letter ☐ Change Order ☐ Drawings/Figures ☐ Plans/Specs
☐ Samples ☐ Other: _____

Copies	Date	No.	Description
1	January 15, 2007		BNSF Skykomish Cleanup Site (WA 0032123) Discharge Monitoring Report

☐ For Approval ☐ Approved as Submitted ☐ Resubmit Copies for Approval
☒ For Your Use ☐ Approved as Noted ☐ Submit Copies for Distribution

Remarks:

Attached is the NPDES Discharge Monitoring Report for the December 2006 monitoring period.

Should you have any questions, please feel free to call me.

Sincerely,

The RETEC Group, Inc.

A handwritten signature in cursive script, appearing to read "Halah M. Voges", is written over a horizontal line.

Halalah M. Voges, P.E. Senior Program
Manager

cc: Louise Bardy, Ecology
Jeanne Tran, Ecology
Bruce Sheppard, Ecology
Dennis Metz, RETEC
RETEC file

Permittee Name/Address

Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374

ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134

FACILITY BNSF SKYKOMISH CLEANUP SITE

LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT(DMR)

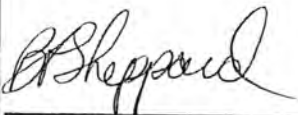
WA-0032123	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2006	12	1		2006	12	31

NOTE: Read instructions before completing this form.

Discharge Location	
Lat	47° 42' 37" N
Long	121° 21' 44" W
NO DISCHARGE	☒

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
FLOW (TREATMENT TRAIL NO. 1)	Sample Measurement	*****		GPM	*****	*****	*****	***			
	Permit Requirement	*****	500		*****	*****	*****				
FLOW (TREATMENT TRAIL NO. 2)	Sample Measurement	*****		GPM	*****	*****	*****	***			
	Permit Requirement	*****	500		*****	*****	*****			CONT.	METER
CHITOSAN ACETATE	Sample Measurement	*****	*****	***	*****	*****		mg/L			
	Permit Requirement	*****	*****		*****	*****	0.1				
OILY SHEEN	Sample Measurement	*****	*****	***	*****	*****		YES/NO			
	Permit Requirement	*****	*****		*****	*****	REPORT				
pH	Sample Measurement	*****	*****	***		*****		STD.			
	Permit Requirement	*****	*****		6.5	*****	8.5				
DISSOLVED OXYGEN*	Sample Measurement	*****	*****	***		*****	*****	mg/L			
	Permit Requirement	*****	*****		8	*****	*****				
BACKGROUND TURBIDITY (1)	Sample Measurement	*****		NTU	*****	*****	*****	***			
	Permit Requirement	*****	REPORT		*****	*****	*****				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>Bruce Sheppard/BNSF</u> <u>Manager Environmental Rem.</u> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE	DATE
			206) 625-635	07, 01, 15
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA NUMBER CODE	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*DISSOLVED OXYGEN SHALL BE MONITORED FOR A PERIOD OF 5 WEEKS.

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

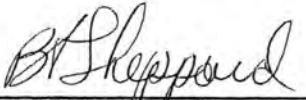
WA-0032123 001
PERMIT NUMBER DISCHARGE NUMBER

NOTE: Read instructions before
completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE ☒

MONITORING PERIOD
YEAR MO DAY TO YEAR MO DAY
2006 12 01 TO 2006 12 31

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION				No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
EFFLUENT TURBIDITY (2)	Sample Measurement	*****		NTU	*****	*****	*****	***			
	Permit Requirement	*****	REPORT		*****	*****	*****			01/07	GRAB
INCREASE OVER BACKGROUND (2-1)	Sample Measurement	*****		NTU	*****	*****	*****	***			
	Permit Requirement	*****	5*		*****	*****	*****			01/07	GRAB
BENZENE	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	1.2			01/07	GRAB
BTEX	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	100			01/07	GRAB
TPH (BEFORE GAC)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	REPORT			01/07	GRAB
TPH (AFTER GAC)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	208			01/07	GRAB
LEAD (TR)	Sample Measurement	*****	*****	***	*****	*****		ug/L			
	Permit Requirement	*****	*****		*****	*****	12.5			01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>Bruce Sheppard /BNSF</u> <u>manager, Environmental</u> <u>Remediation</u> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 206 1625 6035 AREA NUMBER CODE	DATE 2007/01/15 2007/01/15 YEAR MO DAY
--	---	---	--	---

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*WHEN BACKGROUND TURBIDITY IS GREATER THAN 50 NTU, TURBIDITY IS LIMITED TO A 10% INCREASE OVER BACKGROUND.

TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	12	01	2006	12	31

NOTE: Read instructions before completing this form.

Discharge Location
Lat 47° 42' 37" N
Long 121° 21' 44" W
NO DISCHARGE ☒

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed-ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
ARSENIC (TR)	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	360		01/07	GRAB
ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	2400		01/07	GRAB
FLUORENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	640		01/07	GRAB
NAPHTHALENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	160		01/07	GRAB
PYRENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	480		01/07	GRAB
BENZO (a) ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (b) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <i>Bruce Sheppard / BNSF Manager, Environmental Remediation</i> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	<i>B Sheppard</i> SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE <i>206/6256035</i> AREA NUMBER CODE	DATE <i>07/01/15</i> YEAR MO DAY
---	---	---	---	--

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TR - MEANS TOTAL RECOVERABLE

Permittee Name/Address
Include Name/Location (if different)

NAME BNSF RAILWAY COMPANY 6374
ADDRESS 2454 OCCIDENTAL AVE S, STE 1A
SEATTLE, WA 98134
FACILITY BNSF SKYKOMISH CLEANUP SITE
LOCATION SKYKOMISH, WA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT(DMR)

WA-0032123			001		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2006	12	01	2006	12	31

NOTE: Read instructions before
completing this form.

Discharge Location	
Lat 47° 42' 37" N	
Long 121° 21' 44" W	
NO DISCHARGE	X

Parameter		QUALITY OR LOADING			QUALITY OR CONCENTRATION			No. of Exceed- ances	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
BENZO (k) FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
BENZO (a) PYRENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
CHRYSENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
DIBENZO (a, h) - ANTHRACENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
INDENO (1, 2, 3- cd) PYRENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	0.01		01/07	GRAB
ACENAPHTHENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	643		01/07	GRAB
FLUORANTHENE	Sample Measurement	*****	*****	***	*****	*****				
	Permit Requirement	*****	*****		*****	*****	90.2		01/07	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Sheppard / BNSF Manager, Environmental Remediation TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 2006123135	TELEPHONE 20616256035	DATE 07/01/05 YEAR MO DAY
--	---	--	------------------------------	-------------------------------------

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



Bruce A. Sheppard
Manager Environmental Remediation

BNSF Railway Company
2454 Occidental Avenue S, Suite 1A
Seattle, WA 98134-1451

Phone (206) 625-6035
Fax (206) 625-6007

September 14, 2006

Louise Bardy, Project Manager
Washington State Department of Ecology, Toxics Cleanup Program
3190 160th Ave. SE
Bellevue, WA 98008

**RE: BNSF Railway Company Former Maintenance and Fueling Facility, Skykomish, WA
NPDES Permit No. WA-003212-3**

Dear Louise:

This letter is to provide notification of possible noncompliance with National Pollutant Discharge Elimination System Waste Discharge Permit No. WA-003212-3. In accordance with Section S3.E - Noncompliance Notification - this report contains a description of the facts and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the events which may not have been in compliance with the Permit.

On September 11, 2006 from 13:00 - 19:00 turbidity of discharge water may have exceeded the permit limit. Data was recorded from the Chitosan Control Box, and not the actual discharge for the majority of this duration. In addition to reading data from the Chitosan Control boxes, several samples were pulled from the discharge and analyzed in our on-site laboratory to ensure that our in-line readings were consistent. You will note that the Chitosan box in-line meter is slightly higher than that from the lab instrument.

Time	Chitosan Box (NTU)	Discharge (NTU)
13:00	15.0	--
14:00	85.0	--
15:00	--	38
17:30	100	--
18:00	30	--
19:00	10	--
19:30	< 5	--
21:00	--	3.36
24:00	--	3.36

We believe that the turbidity observed was caused by extremely small rock particles passing through the water treatment facility system components. These particles were non-reactive to ionic charge with Chitosan because they have no ionic charge. Additionally, the particles have a low density which prevents them from settling out in the clarifiers.

Wilder rectified the problem by dramatically reducing the flow through the system (from ~750 gpm to ~400 gpm), adjusting Chitosan dosage (both up and down); back flushing both sand filters and carbon cells, and repositioning the intake from the excavation/backfill area so that water was not being drawn from a location that contained a high concentration of extremely small rock particles. Subsequent sampling showed that these actions achieved compliance with the permit limit for turbidity. Wilder has noted that turbid water from both rock fines and soil fines appears to be more receptive to treatment, while water with turbidity primarily from rock fines is problematic. Wilder has also noticed that during periods of back flush, permit parameter levels have typically increased, but not to the point of exceedance that was observed on Sept. 11.

Wilder is also in the process of evaluating the sand filter media bed depth. On September 12, 2006 Wilder noted that sand filter media bed depth has been reduced as a result of frequent back flushing. Consistent with the terms of the Permit, Wilder will conduct an aggressive back flush to clean the remaining media and add additional media as make-up. If this is ineffective, we will replace the media in all sand filter pods. On Monday, Wilder ordered activated carbon to service each of the lead cells. The granular activated carbon cells have not only removed dissolved organics, but also the rock fines. It is anticipated that the replenished sand filters and replaced granular activated carbon will prevent turbidity exceedances in the future.

Sincerely,

Bruce A. Sheppard
Manager Environmental Remediation

Cc: J Tran, Dept. of Ecology
H. Voges, Retec
C. Trueblood, Preston Gates & Ellis
K Yost, Wilder Construction

Appendix F
Well Abandonment Forms

Table 1. Well Construction Details

Well Name	Total Well Depth (ft)	Screened Interval (ft)	Casing Diam. (in.)	Casing material
Monitoring Wells (14)				
5-W-5	19	2.3-17.3	4	PVC
5-W-6*	20	5-20	2	PVC
DW-4	43	38.5-42.5	2	PVC
MW-23	14	2-14	2	PVC
MW-24	14	2-14	2	PVC
MW-25	14	2-14	2	PVC
MW-41	20.5	5-19.7	4	PVC
MW-42	20	3-18	2	PVC
MW-43	20	3-18	2	PVC
MW-44	19	3.5-18.5	4	PVC
MW-45	19	3.5-18.5	4	PVC
MW-46	19	3.5-18.5	4	PVC
PZ-1	19	3.5-18.5	2	PVC
PZ-3	19	3.5-18.5	2	PVC
PZ-4	19	4-19	2	PVC
PZ-5	19	4-19	2	PVC
Recovery wells without vault (2)				
R-6	21	3.5-18.5	8	SS
R-9	21	3.5-18.5	8	SS
Recovery wells with vault (5)				
R-1	21	4-19	6	SS
R-2	21	4-19	6	SS
R-3	21	4-19	6	SS
R-4	23	4-19	6	SS
R-8	23	4-19	6	SS

NOTE:

PVC=polyvinyl chloride; SS=stainless steel

* will require rough terrain negotiation

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

HOLT DRILLING, INC.

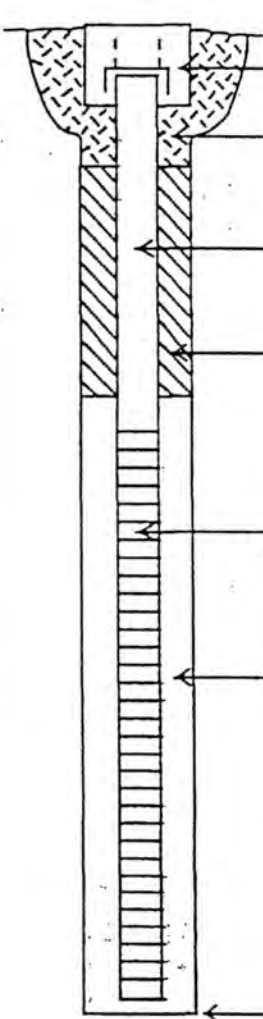
26-11E-26N

Resource Protection Well Report

202830

Project Name BNSF- Skykomish
Well Identification # 5-W-5 (No Tag)
Drilling Method Decommission
Driller Michael Reynolds
License # 2636

Date 6-19-06
County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 26 T. 26N R. 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. _____ ft. RECEIVED JUL 20 2006 DEPT. OF ECOLOGY REMARKS <u>Well backfilled w/ 3/4" holeplug - hydrated. Monument and surrounding area to be removed by contractor.</u> _____ _____ _____
	CONCRETE SURFACE SEAL _____ ft.	
	PVC BLANK <u>4</u> "x _____ ft.	
	BACKFILL _____ ft. TYPE: _____	
	PVC SCREEN _____ "x _____ ft.	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
	WELL DEPTH <u>17.4</u> ft.	

Signature

Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

26-11E-26N

262831

Project Name BNSF- Skykomish
 Well Identification # 5-W-6 (No Tag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-19-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 ft. ft. ft. ft. ft. ft. ft.
	CONCRETE SURFACE SEAL _____	
	PVC BLANK <u>2" x</u> _____	
	BACKFILL _____	
	TYPE: _____	
	PVC SCREEN <u>" x</u> _____	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____	
	MATERIAL: _____	
WELL DEPTH <u>20.0</u>	REMARKS <u>Well backfilled w/ 3/4" holeplug and hydrated. Monument and surrounding area to be removed by contractor.</u>	

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

26-11E 26N

Project Name BNSF-Skykomish
 Well Identification # DW-4 (N.Tac)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-19-06
 County King SW 1/4 SW 1/4
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Rete

WELL DATA	
MONUMENT TYPE	
CONCRETE SURFACE SEAL	ft. _____
PVC BLANK	2"x _____
BACKFILL TYPE	ft. _____
PVC SCREEN	"x _____
SLOT SIZE	
GRAVEL PACK MATERIAL	ft. _____
WELL DEPTH <u>42</u> . <u>6</u> .	

FORMATION DESCRIPTION	
RECEIVED JUL 20 2008 DEPT. OF ECOLOGY	
REMARKS Well backfilled w/ 3" hole plug + hydrated. Monument and surrounding area to be removed by contractor.	

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202833.

26.11E-26N

Project Name BNSF- Skykomish
 Well Identification # MW-23 (No Tag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-19-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE:	RECEIVED JUL 20 2006 DEPT. OF ECOLOGY 0 - ft. - ft. - ft. - ft. - ft. - ft.
	CONCRETE SURFACE SEAL	
	ft.	
	PVC BLANK 2"x	
	BACKFILL ft.	
	TYPE:	
	PVC SCREEN "x	
	SLOT SIZE:	
	TYPE:	
	GRAVEL PACK ft.	
MATERIAL:		
WELL DEPTH 14' 0"	REMARKS <u>Well backfilled w/ 3/4" hole plug + hydrated. Monument and surrounding area to be removed by contractor.</u>	

Signature Michael Reynolds

HOLT DRILLING, INC.

200834

Resource Protection Well Report

26-11E-26N

Project Name BNSF-Skykomish
 Well Identification # Mw-24 (Noting)
 Drilling Method Recommendation
 Driller Michael Reynolds
 License # 2636

Date 6-19-06
 County King Sw 1/4 Sw 1/4
 Section 26 T 26N R 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Rete

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

WELL DATA	
MONUMENT TYPE	_____
CONCRETE SURFACE SEAL	_____ ft.
PVC BLANK	<u>2</u> "x _____ ft.
BACKFILL TYPE	_____ ft.
PVC SCREEN	<u>"x _____</u>
SLOT SIZE	_____
TYPE	_____
GRAVEL PACK	_____ ft.
MATERIAL	_____
WELL DEPTH	<u>14</u> ft. <u>0</u> "

FORMATION DESCRIPTION	
0	ft.
_____	ft.
_____	ft.
_____	ft.

RECEIVED
 JUL 20 2006
 DEPT. OF ECOLOGY

REMARKS Well backfilled w/ 3/8" hotting & hydrated. Monument and surrounding area to be removed by contractor.

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

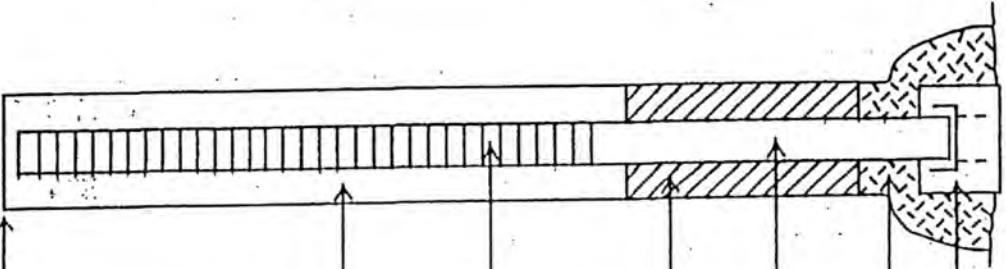
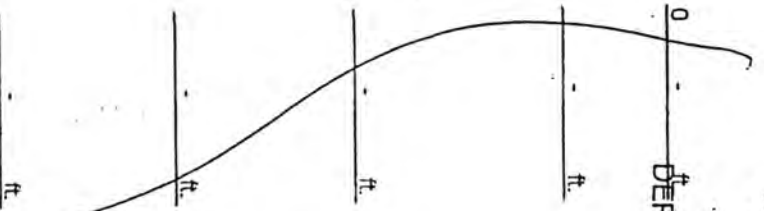
202835

2611E-26N

Project Name BNSF - Skykomish
Well Identification # Mw-25 (Not a)
Drilling Method Recommendation
Driller Michael Reynolds
License # 2636

Date 6-20-06
County King Sw 1/4 Sw 1/4
Section 26 T 26N R 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Rete

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE _____ CONCRETE SURFACE SEAL _____ ft. PVC BLANK <u>2</u> "x _____ ft. BACKFILL _____ ft. TYPE _____ PVC SCREEN _____ "x _____ ft. SLOT SIZE _____ TYPE _____ GRAVEL PACK _____ ft. MATERIAL _____ WELL DEPTH <u>14</u> ft. $\emptyset$ _____	 RECEIVED JUL 20 2006 DEPT. OF ECOLOGY REMARKS <u>Well backfilled w/ 3/8" halophylohydrated. Monument and surrounding area to be removed by contractor.</u>

Signature

Michael Reynolds

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

HOLT DRILLING, INC.

Resource Protection Well Report

202836

26-11E-26N

Project Name BNSF-Skykomish
Well Identification # MW-41 (No Tag)
Drilling Method Decommission
Driller Michael Reynolds
License # 2636

Date 6-20-06
County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 26 T. 26N R. 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
RECEIVED JUL 20 2006 DEPT. OF ECOLOGY		
	MONUMENT TYPE: _____	
	CONCRETE SURFACE SEAL _____ ft.	
	PVC BLANK <u>4</u> "x _____ ft.	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN _____ "x _____ ft.	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
WELL DEPTH <u>19.8</u>		

REMARKS Well back-filled w/ 3/4" holeplug + hydrated. Monument and surrounding area to be removed by contractor.

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202837

26-UE-26N

Project Name BNSF- Skykomish
 Well Identification # MW-42 (No Tag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	RECEIVED JUL 20 2006 DEPT. OF ECOLOGY
	CONCRETE SURFACE SEAL _____	
	ft. _____	
	PVC BLANK <u>2"</u> x _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN <u>"</u> x _____	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
MATERIAL: _____		
WELL DEPTH <u>18' 0"</u>	0 - ft. - ft. - ft. - ft. - ft. - ft.	

REMARKS Well backfilled w/ 3/8" holeplug + hydrated. Monument and surrounding area to be removed by contractor.

Signature Michael Reynolds

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report.

HOLT DRILLING, INC.

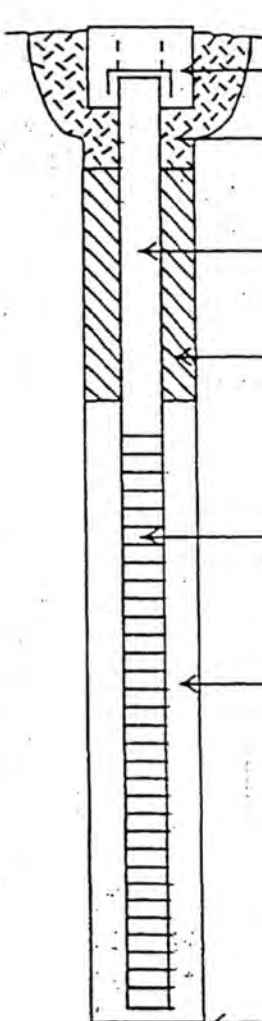
Resource Protection Well Report

202838

26-11E-26N

Project Name BNSF- Skykomish
Well Identification # MW-43 (No Tag)
Drilling Method Decommission
Driller Michael Reynolds
License # 2636

Date 6-20-06
County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 26 T. 26N R. 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE	
	CONCRETE SURFACE SEAL	
	ft.	
	PVC BLANK <u>2" x</u>	
	BACKFILL	
	TYPE	
	ft.	
	PVC SCREEN <u>" x</u>	
	SLOT SIZE	
	TYPE	
GRAVEL PACK		
ft.		
MATERIAL		
WELL DEPTH <u>18' 0"</u>		

RECEIVED
JUL 20 2006
DEPT. OF ECOLOGY



REMARKS Well backfilled w/ 3/8" holeplug and hydrated. Monument and surrounding area to be removed by contractor.

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202839

26-11E-26N

Project Name BNSF- Skykomish
 Well Identification # MW-44
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW 1/4 SW 1/4
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	RECEIVED <u>0</u> - <u>ft.</u> JUL 20 2006 DEPT. OF ECOLOGY <u>-</u> - <u>ft.</u> <u>-</u> - <u>ft.</u> <u>-</u> - <u>ft.</u> <u>-</u> - <u>ft.</u> REMARKS <u>Well back filled w/ 3/8" hole plug + hydrated. Monument and surrounding area to be removed by contractor.</u>
	CONCRETE SURFACE SEAL _____	
	ft. _____	
	PVC BLANK <u>4"</u> _____	
	BACKFILL _____	
	TYPE: _____	
	PVC SCREEN <u>"X"</u> _____	
	SLOTTED SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____	
MATERIAL: _____		
WELL DEPTH <u>18.6</u> _____		

Signature Michael Reynolds

HOLT DRILLING, INC.

26-11E-26N

200840

Resource Protection Well Report

Project Name BNSF-Skykomish
 Well Identification # Mw-45 (N-Tac)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

The Department of Ecology does NOT Warrant the Data and/or the Information on this W Report.

AS-BUILT		WELL DATA

FORMATION DESCRIPTION

0 ft.
 RECEIVED
 JUL 20 2006
 DEPT. OF ECOLOGY
 ft.
 ft.
 ft.

REMARKS Well backfilled w/ 3" holepiling + hydrated. Monument and surrounding area to be removed by contractor.

Signature

Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

26-NE-26N

202841

Project Name BNSF- Skykomish
 Well Identification # MW-46 (NoTae)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 - ft. - ft. - ft. - ft. - ft. - ft. - ft.
	CONCRETE SURFACE SEAL _____	
	PVC BLANK <u>4</u> "x _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN _____ "x _____	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
	WELL DEPTH <u>18.6</u> ft.	

RECEIVED

JUL 20 2006

DEPT. OF ECOLOGY

REMARKS Well backfilled w/ 3/4" holeplug and hydrated. Monument and surrounding area to be removed by contractor.

Signature

Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

26-11E-26N

202842

Project Name BNSF - Skykomish
 Well Identification # P2-1 (N.Tac)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 - ft. RECEIVED JUL 20 2006 DEPT. OF ECOLOGY - ft. - ft. - ft. - ft. - ft. REMARKS <u>Well backfilled w/ 3/4" hole plug & hydrated. Monument and surrounding area to be removed by contractor.</u> _____ _____ _____
	CONCRETE SURFACE SEAL _____	
	ft. _____	
	PVC BLANK <u>2"x</u>	
	BACKFILL _____	
	TYPE: _____	
	PVC SCREEN <u>"x</u>	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____	
MATERIAL: _____		
WELL DEPTH <u>18.6</u>		

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202843

26 NE 26 N

Project Name BNSF- Skykomish
 Well Identification # P2-3
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE _____	0 - ft. RECEIVED JUL 20 2006 DEPT. OF ECOLOGY - ft. - ft. - ft. - ft.
	CONCRETE SURFACE SEAL _____	
	PVC BLANK <u>2" x</u> _____	
	BACKFILL _____	
	TYPE _____	
	PVC SCREEN <u>" x</u> _____	
	SLOT SIZE _____	
	TYPE _____	
	GRAVEL PACK _____	
	MATERIAL _____	
WELL DEPTH <u>18.6</u>	REMARKS <u>Well backfilled w/ 3/8" holeplug + hydrated. Monument and surrounding area to be removed by contractor.</u>	

Signature Michael Reynolds

Signature Michael J. Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

200845

2611E.26N

Project Name BNSF - Skykomish
 Well Identification # PZ.5
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-20-06
 County King, SW 1/4 SW 1/4
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Rete

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

AS-BUILT		WELL DATA
		MONUMENT TYPE _____
		CONCRETE SURFACE SEAL _____ ft.
		PVC BLANK <u>2</u> x _____
		BACKFILL _____ ft.
		PVC SCREEN _____ x _____
		SLOT SIZE _____
		TYPE _____
		GRAVEL PACK _____ ft.
		MATERIAL _____
		WELL DEPTH <u>19</u> ft.

FORMATION DESCRIPTION

RECEIVED
 JUL 20 2006
 DEPT. OF ECOLOGY

_____ ft.
 _____ ft.
 _____ ft.
 _____ ft.

REMARKS Use 11 backfilled w/ 3/8" helix and hydrated. Monument and surrounding area to be removed by contractor.

Signature

Michael Reynolds

The Department of Ecology does NOT warrant the Data and/or the Information on this Report.

HOLT DRILLING, INC.

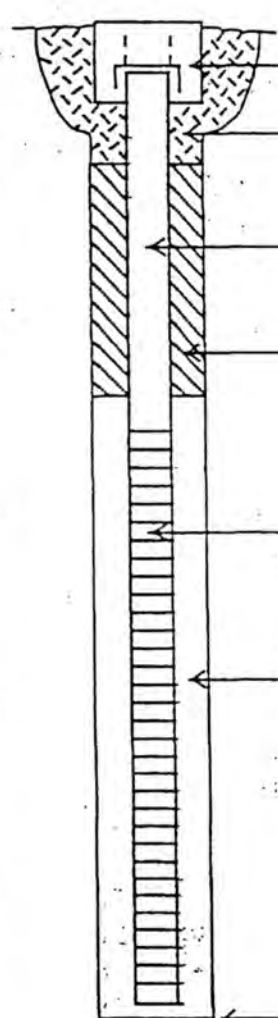
Resource Protection Well Report

202857

26-11E-26N

Project Name BNSF- Skykomish
Well Identification # R-6 (N-TAG)
Drilling Method Decommission
Driller Michael Reynolds
License # 2636

Date 6-19-06
County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
Section 26 T. 26N R. 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____ CONCRETE SURFACE SEAL _____ ft. stainless 8 BLANK 8" x _____ BACKFILL _____ ft. TYPE: _____ PVC SCREEN _____" x _____ SLOT SIZE: _____ TYPE: _____ GRAVEL PACK _____ ft. MATERIAL: _____ WELL DEPTH <u>21.0</u>	RECEIVED JUL 20 2006 DEPT. OF ECOLOGY 0 - ft. - ft. - ft. - ft. - ft. - ft.

REMARKS Stainless well was removed. Location drilled out w/ 4" HSA (10" Hole) and grouted from bottom to surface.

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202851

26 NE 26 N

Project Name BNSF- Skykomish
 Well Identification # R-9 (No Tag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-19-06
 County King SW 1/4 SW 1/4
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retee

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	RECEIVED 0 - ft. JUL 20 2006 DEPT. OF ECOLOGY - ft. - ft. - ft. - ft. REMARKS <u>Stainless well was removed. Location drilled out w/ 4" HSA (10" Hole) and grouted from bottom to Surface.</u>
	CONCRETE SURFACE SEAL _____ ft.	
	Stainless PIPE BLANK <u>8"</u> x _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN _____" x _____	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
	WELL DEPTH <u>21.0</u>	

Signature Michael Reynolds

Report.

Resource Protection Well Report

26-11E 26N

Date 6-21-06
County King, SW 1/4 SW 1/4
Section 26 T. 26N R. 11E
Street Address No Address - On River Dr. West.
Start Card A118134
Consulting Firm Retec

RECEIVED
JUL 20 2006
DEPT. OF ECOLOGY

Signature Michael J. Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202849

26-11E-26N

Project Name BNSF- Skykomish
 Well Identification # R-2
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-21-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 - RECEIVED JUL 20 2006 DEPT. OF ECOLOGY ft. ft. ft. ft.
	CONCRETE SURFACE SEAL _____ ft.	
	Stainless BLANK <u>6" x</u>	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN <u>"x</u>	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
WELL DEPTH <u>21.0</u>	REMARKS <u>Stainless well was removed. Location drilled out w/ 4" HSA (60" Hole) and grouted from bottom to surface.</u>	

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

262848

26-11E-26N

Project Name BNSF- Skykomish
 Well Identification # R-3 (No Tag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-21-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 - RECEIVED JUL 20 2006 DEPT. OF ECOLOGY ft. _____ ft. _____ ft. _____ ft. _____
	CONCRETE SURFACE SEAL _____ ft.	
	stainless steel BLANK <u>6"</u> x _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN <u>4"</u> x _____	
SLOT SIZE: _____	ft. _____ ft. _____ ft. _____	
TYPE: _____		
GRAVEL PACK _____ ft.		
MATERIAL: _____		
WELL DEPTH <u>21.0</u>	REMARKS <u>Stainless well was removed. Location drilled w/ 4" HSA (10" H.O.L.) and grouted from bottom to surface.</u> _____ _____ _____	

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202847

26-11E 26N

Project Name BNSF- Skykomish
 Well Identification # R-4 (NoTag)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-22-06
 County King SW 1/4 SW 1/4
 Section 26 T. 26N R. 11E
 Street Address NoAddress - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE: _____	0 - ft. RECEIVED JUL 20 2006 DEPT. OF ECOLOGY - ft. - ft. - ft. - ft.
	CONCRETE SURFACE SEAL _____ ft.	
	Stainless 6" x 6" BLANK _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN _____" x _____"	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
	MATERIAL: _____	
WELL DEPTH <u>23.0'</u>	REMARKS <u>Stainless well was removed. Location drilled w/ 4" HSA (10" Hole) and grouted from bottom to surface.</u>	

Signature Michael Reynolds

HOLT DRILLING, INC.

Resource Protection Well Report

202846

26 NE 26N

Project Name BNSF- Skykomish
 Well Identification # R-8 (N.Tac)
 Drilling Method Decommission
 Driller Michael Reynolds
 License # 2636

Date 6-22-06
 County King SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 26 T. 26N R. 11E
 Street Address No Address - On River Dr. West.
 Start Card A118134
 Consulting Firm Retec

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	MONUMENT TYPE _____	0 - ft. RECEIVED JUL 20 2006 DEPT. OF ECOLOGY - ft. - ft. - ft. - ft.
	CONCRETE SURFACE SEAL _____	
	ft. _____	
	stainless BLANK BLANK 6"x _____	
	BACKFILL _____ ft.	
	TYPE: _____	
	PVC SCREEN _____"x _____	
	SLOT SIZE: _____	
	TYPE: _____	
	GRAVEL PACK _____ ft.	
MATERIAL: _____		
WELL DEPTH <u>23.0</u>	REMARKS <u>Stainless well was removed. Location drilled out w/ 4" HSA (10" Hole) and grouted from bottom to surface.</u>	

Signature Michael Reynolds

Appendix G

House Moving Plans and Reports

- ▶ House Inspection Report
- ▶ House Moving Work Plan
- ▶ D.B. Davis, LLC Safety Program
- ▶ Septic Waiver Letters
- ▶ Asbestos Documentation

House Inspection Report



6/4/2006 8:44:05 PM

BNSF Levee Remediation Properties, Skykomish

LIMITATION: Restricted/No Access ☐ Debris/Obstruction ☐ Snow/Ice Cover ☐ Vegetation/Tree/Shrub ☒
CONDITIONS: Clear/Sunny ☒ Cloudy/Overcast ☐ Rain/Snow ☐ Approx. Temperature 75
Dry Ground ☒ Approx. Hydrant Distance

BUILDING Approx. Years Old Condo ☐ Rural ☐ BUILDING
Bungalow ☒ Bi-Level ☐ 2 Story ☐ 3 Story ☐ Photo # 32
Semi-Detached ☐ Plex Row/Town ☐ Other ☐

LANDSCAPING Slope to House ☐ Not Applicable
Flower Bed ☐ Hedge/Shrub ☐ Tree/Vine ☐ Ravine ☐
Earth to Wood ☐ Site Erosion ☐ No Swale ☐ Other ☐

DRIVEWAY Slopes to House ☐ Not Applicable
Paving Stone ☐ Gravel ☐ Concrete ☐ Asphalt ☐

WALKWAY/PATH Slopes to House ☐ Not Applicable
Paving Stone ☐ Patio Block ☐ Concrete ☐ Asphalt ☐

PORCH Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☐ Concrete ☐ Brick/Block ☐
Crack/Spalling ☐ Corrosion ☐ Rot ☐ Repaint ☐

LIGHTING None ☐ Unsecured ☐ Operational

RECEPTACLE Damaged/No Cover ☐ Not Applicable

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

DECK/ PATIO Unsecured ☐ No Visible Damage Noted
Composite/Wood ☐ Brick/Block ☐ Concrete ☐ Metal ☐
Slope to House ☐ Paving Stone ☐ Patio Block ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Mold/Mildew ☐ Rot ☐

RAILING Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☐ Incomplete ☐ None ☐

RETAINING WALL Not Stable ☐ Not Applicable
No Weep Holes ☐ Wood ☐ Concrete ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Rot ☐ Leans ☐



For the purpose of this report your house faces:

FRONT



6/11/2006 9:17:06 PM

125 5th St. N - Mitchell East

BNSF Levee Remediation Properties, Skykomish

EXTERIOR

LIMITATION	Clearance ☐	Seasonal Storm Window ☐	Debris/Obstruction ☐	Shrub/Tree/Hedge/Vines/Ivy ☒
	Snow/Ice Cover ☐	Restricted/No Access ☐	Parged ☐	Other ☐
FOUNDATION WALL Not Exposed ☐		Not Applicable		WALL SURFACE
Poured Concrete ☐	Block ☐	Brick ☐	Stone ☐	<i>Caulk is loose/missing at SE corner. Photo #31</i>
Exterior Rigid Insulation ☐	PWF/Wood ☐	Piling/Pier ☐		
Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Frost Heave ☐	
WALL SURFACE No Ground Clearance ☐		No Visible Damage		<i>Hole in siding on west side. Photo #35</i>
Aluminum ☒	Composite ☐	Brick/Block ☐	Stone ☐	<i>Corner pieces missing and gaps exist (caulking needed) near and above Electrical Service Mast. Exposed electric wires at wall (left side of picture). Photo #36</i>
Stucco ☐	Vinyl Siding ☐	Wood Siding ☐	Shingle ☐	
Split/Loose ☐	Repaint ☐	Repaint ☐	Recaulk ☒	
Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Blister/Peel ☐	
WINDOWS Inspected with Binoculars ☐		No Visible Damage Noted		
Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐	
Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Poor Trim ☐	
WINDOW WELL Improper Drainage ☐		Not Applicable		
DOORS Binds ☐		Damaged ☐	Operational	
Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐	
Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Split/Dent ☐	
LIGHTING None ☐		Unsecured ☐	Operational	
RECEPTACLE Damaged/No Cover ☐		Not Applicable		
Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐	
BASEMENT WALKOUT Covered ☐		Not Applicable		
Poor Condition ☐	No Railing ☐	No Drain ☐	Leak ☐	
Crack/Spalling ☐	Mildew/Mold ☐	Frost Heave ☐	Repare ☐	



GARAGE / CARPORT

TYPE	Attached ☐	Built-In ☐	Detached ☐	Single ☐	Double ☐	Insulated/Heated ☐	Attic Access ☐
DOOR Binds ☐							
Damaged ☐							
Not Applicable							
Automatic ☐							
Sectional ☐							
Wood ☐							
Metal ☐							
Adjust Auto Stop ☐							
No Safety Stop ☐							
Stain/Rot ☐							
Corrosion ☐							
FLOOR Crack ☐							
Settlement ☐							
Not Applicable							
Asphalt ☐							
Concrete ☐							
Gravel ☐							
Stain/Rot ☐							
WALL No Fire Barrier ☐							
Not Applicable							
Drywall/Plaster ☐							
Brk/Blk/Stone ☐							
Wood ☐							
Stain/Rot ☐							
WINDOW Binds ☐							
Damaged ☐							
Not Applicable							
CEILING No Fire Barrier ☐							
Not Applicable							
Drywall/Plaster ☐							
Crack ☐							
Wood ☐							
Stain/Rot ☐							
LIGHTING None ☐							
Unsecured ☐							
Not Applicable							
RECEPTACLE Damaged/No Cover ☐							
Not Applicable							
Install GFCI ☐							
Reverse Polarity ☐							
No Ground ☐							
Open Ground ☐							
CIRCUIT WIRE Concealed ☐							
Unsecured ☐							
Improper ☐							
ACCESS DOOR To ☐							
Not Applicable							
Auto Door Close ☐							
Metal Clad ☐							
Wood ☐							
Composite ☐							
Gas Proof ☐							
Damaged ☐							
Stain/Rot ☐							
Corrosion ☐							



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INSPECTED BY:		Binocular ☒	Roof Edge ☒	Walk On ☐	No Access ☐
LIMITATION		Deck/Patio ☐	Gravel/Flat ☐	Height ☐	Steep Slope ☐
		Solar Panel ☐	Fragile ☐	Other ☐	Rain/Snow/Ice Cover ☐

MAIN ROOF	Flat ☐	Gable ☒	Valley ☐	Hip ☐	Shed ☐	Other ☐	Est. Age	Pitch 6/12
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GUTTER/DOWNSPOUT		Unsecured ☐	No Visible Damage Noted		CHIMNEY/VENT
TYPE	Aluminum ☒	Galvanized ☐	Copper ☐	Plastic ☐	<u>Minor brick deterioration at chimney. Photo # 34. Re-pointing is advised.</u>
	Incomplete ☐	Dent/Split ☐	Corrosion ☐	Leak ☐	
DRAINAGE	Above Ground ☐	Below Ground ☐	Spill/Roof ☐		
	Extend Leader ☐	Redirect Leader ☐	Clean ☒		

FASCIA/SOFFIT		Not Vented ☐	No Visible Damage Noted	
	Aluminum ☒	Wood ☐	Vinyl ☐	Other ☐
	Loose ☐	Mildew/Mold ☐	Stain/Rot ☐	Corrosion ☐

COVERING # of Layers 1		No Visible Damage Noted	
Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☒	Other ☐
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	

LIFE EXPECTANCY		Typical ☒	Middle/End ☐	Exceeded ☐
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ACCESSORY		Unsecured ☐	No Visible Damage Noted	
Air/Exhaust Vent ☒	Vent Stack ☒	Turbine ☐	Elec. Mast ☒	
Solar Panel ☐	Skyflight ☐	Antenna ☐	Dish ☐	

FLASHING		Not Checked/Concealed ☐	No Visible Damage Noted	
Chimney ☒	Dormer ☐	Drip Edge ☐	Flat Roof ☐	
Skylight ☐	Roof to Wall ☐	Stack ☒	Valley ☐	
Roll Roofing ☐	Alum./Galv. ☒	Copper/Lead ☐	Rubber ☐	
Gap/Loose/Crack ☐	Deterioration ☐	Corrosion ☐	Tarred ☐	
Reseal/Recaulk ☐	Improper ☐	Replace When Re-Roofing ☐		

CHIMNEY / VENT		Leaning ☐	No Visible Damage Noted	
Fireplace ☐	Furnace ☐	Gas Insert ☐	Other ☐	
Brick ☒	Metal ☐	Wood ☐	Stucco ☐	
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐	
Abandoned ☐	No Wind Cap ☐	Metal Liner Required ☐		

CHIMNEY CAP		None ☐	No Visible Damage Noted	
Concrete ☐	Masonry ☐	Metal ☒	Other ☐	
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐	

VISIBLE FLUE LINER		None ☐	Not Applicable	
Brick/Block ☐	Clay/Concrete ☐	Metal ☐	Metal Insert ☐	
Rain Cap ☐	Deterioration ☐	Corrosion ☐	Loose ☐	
Crack/Spalling ☐	Improper ☐	Advise Cleaning/Sweeping ☐		

SECONDARY ROOF	Flat ☐	Gable ☐	Hip/Valley ☐	Shed ☐	Other ☐	Est. Age	Pitch
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COVERING # of Layers 0		Not Applicable	
Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☒	
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	

LIFE EXPECTANCY		Typical ☐	Middle/End ☐	Exceeded ☐
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125 5th St. N - Mitchell East

ATTIC

BNSF Levee Remediation Properties, Skykomish

LIMITATION:		No Access ☐	Sealed ☐	Stored Items ☐	Looked In ☐	Entered ☒	Hatch ☒	Pull Down ☐	Insulated ☒
STRUCTURE	Truss ☐	Rafter ☒	No Visible Damage Noted		STRUCTURE				
Warped ☐	Stain/Rot ☐	Sag/Loose ☐	Split ☐	<u>Attic structure photos # 38-40</u>					
SHEATHING	Condensation ☐	No Visible Damage Noted		SHEATHING					
Composite ☐	Thermal Board ☐	Plywood ☐	Board ☒	<u>Chimney and previous moisture stains on sheathing. Photos # 41-43</u>					
R Felt/R Paper ☐	Mildew/Mold ☐	Sag/Loose ☐	Stain/Rot ☐						
INSULATION	Estimated Depth 10"	No Visible Damage Noted							
Radiant Barrier ☐	Concealed ☐	Finished ☐	None ☐						
Vapor Barrier ☐	Fibreglass ☐	Mineral ☐	Cellulose ☒						
Wood Shavings ☐	Rigid Plastic ☐	Foam ☐	Other ☐						
Batt ☐	Blown/Loose ☒	Sprayed ☐	Required ☐						
VENTILATION	None ☐	No Visible Damage Noted							
Soffit ☐	Gable End ☒	Turbine ☐	Mechanical ☐						
Baffles ☐	Roof ☒	Blocked ☐	Required ☐						
EXHAUST DUCT	Concealed ☒	Not Applicable							
Not Insulated ☐	Into Attic ☐	Plastic/Flex ☐	Metal ☐						
ELECTRICAL	Concealed ☒	Not Applicable							
Abandoned ☐	Knob & Tube ☐	Open Splice ☐	Frayed ☐						

125 5th St. N - Mitchell East

ELECTRICAL SERVICE / PANEL

SERVICE ENTRANCE	Underground ☐	Overhead ☒	No Conduit ☐	DISTRIBUTION PANEL	
120-Volt ☐	120/240 Volt ☒	Unsecured ☐	Frayed ☐	<u>200 Amp panel with copper Romex electric cables. Photo # 20</u>	
ENTRANCE CABLE	Concealed ☐	Aluminum ☐	Copper ☐		
MAIN DISCONNECT	Switch/Cartridge Fuse ☐	Breaker ☒			
DISCONNECT RATING	200 Amps	Have Electrician Evaluate ☐			
DISTRIBUTION PANEL	Not Opened ☐	No Visible Damage Noted			
Location	"basement/laundry"	Non Standard Installation ☐			
Obstructed ☐	Unsecured ☐	Corrosion ☐	Obsolete ☐		
PANEL RATING	200 Amps	Room for Expansion ☐			
FUSE	Breaker ☐	Glass/Screw ☐	Cartridge ☐	Time Delay ☐	
GFCI Breaker ☐	AFCI Breaker ☐	Blown/Broken ☐	Over-Fused ☐		
CIRCUIT WIRE	Improper ☐	No Visible Damage Noted			
Aluminum ☐	Copper ☒	Copper Clad ☐	Other ☐		
Non - Metallic Sheathed ☐	Armoured Cable ☐	Knob & Tube ☐			
Double Tapping ☐	Spliced ☐	Corrosion ☐	Scorched ☐		
GROUNDING	Concealed ☐	Ground Rod ☐	Water Main ☐		
Improper Connection/Installation ☐	Meter By-Pass/Jumper ☐				
BONDING	Concealed ☐	Water Pipe ☐	Gas Pipe ☐		
Improper Connection/Installation ☐	Corrosion ☐	Unsecured ☐			
AUXILIARY PANEL	Concealed ☐	Not Applicable			
Location	Non Standard Installation ☐				
Not Opened ☐	Unsecured ☐	Corrosion ☐	Obsolete ☐		
DISCONNECT RATING	0 Amps	Have Electrician Evaluate ☐			
PANEL RATING	0 Amps	Room for Expansion ☐			
FUSE	Breaker ☐	Glass/Screw ☐	Cartridge ☐	Time Delay ☐	
GFCI Breaker ☐	Blown/Broken ☐	Over-Fused ☐	Scorched ☐		



Pillar To Post

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BNSF Levee Remediation Properties, Skykomish

DATA PLATE: Not Legible ☐ Incomplete ☐ Model LENNOX		Btu Input	Est. Age 17
LIMITATIONS: Clean-Out Does Not Open ☐ Oil/Propane Tank Not Visible ☐ System Shut-Off/Inoperative ☐ Piping/Ducts Concealed ☒ Weather/Temperature ☐			
SMOKE DETECTORS	Basement ☐ 1st Floor ☐ 2nd Floor ☐ 3rd Floor ☐ Other		
CO DETECTORS	Basement ☐ 1st Floor ☐ 2nd Floor ☐ 3rd Floor ☐ Other		
THERMOSTAT/HUMIDISTAT	Unsecured ☐ Operational ☒	HEATING SYSTEM	
Location dining room	Programmable ☐ Standard ☒	<u>Electric furnace with Heat Pump. Electronic Air Cleaner. Photo # 21</u>	
FUEL SOURCE Gas/Propane ☐ Oil ☐ Wood/Pellet ☐ Electric ☒		AC/HEAT PUMP	
HEAT TYPE Convector ☐ Forced Air ☒ Radiator ☐		<u>17 year old Lennox Heat Pump. Photo # 28</u>	
BURNER TYPE Conventional ☒ Mid ☐ High ☐			
HEATING SYSTEM	Advise Service/Repair Contract ☒		
AIR REQUIREMENT Internal ☐ External ☐ Inadequate ☐			
VENTING Flue ☐ Sidewall ☐ Metal ☐ Plastic ☐			
Improper Rises ☐ Unsecured ☐ Corrosion ☐ Soot ☐			
LIFE EXPECTANCY Typical ☐ Middle/End ☐ Exceeded ☐			
GAS BURNER Not Checked ☐	Not Applicable		
BURNER Corrosion ☐ Advise Adjustment ☐			
IGNITION Electronic ☐ Pilot & Thermocouple ☐			
HEAT SHIELD Missing ☐ Corrosion ☐ Soot ☐			
PROPANE TANK/PIPING Unsecured ☐ Corrosion ☐ Kink/Leak ☐			
OIL BURNER BLOWER Not Checked ☐	Not Applicable		
BURN CHAMBER Deterioration ☐ Advise Adjustment ☐			
Burn Through ☐ Corrosion ☐ Crack ☐ Soot ☐			
INSPECTION DOOR Missing ☐ Soot ☐ Sealed ☐			
BAROMETRIC DAMPER Missing ☐ Unbalanced ☐ Sealed ☐			
OIL TANK/ PIPING Basement ☐ Outside ☐ Buried ☐			
No Filter ☐ Unsecured ☐ Corrosion ☐ Kink/Leak ☐			
CENTRAL HUMIDIFIER Not Checked ☐	Not Applicable		
Water Shut Off ☐ Damaged ☐ Clean/Repair/Replace ☐			
Mildew ☐ Unsecured ☐ Corrosion ☐ Leak ☐			
MOTOR/BLOWER Direct Drive ☐ Noisy ☐ Other ☐			
FAN BELT Loose/Worn ☐ Misalign ☐ Other ☐			
FILTER Electronic ☐ Disposable ☒ Permanent ☐ Missing ☐			
Inoperable ☐ Undersized ☐ Damaged ☐ Dirty ☐			
DUCT/JOINT/HOUSING Unsecured ☐ Corrosion ☐ Kink/Leak ☐			
AC / HEAT PUMP Not Checked ☒	Operational		
Evaporative ☐ Central ☒ Geo-Therm ☐ Air ☐			
Through Wall ☐ Damaged Fins ☐ Corrosion ☐ Noisy ☐			
Loose ☐ Unsecured ☐ Not Level ☐ Dirty ☐			
TEMP. DIFFERENTIAL Supply Air	Return Air		
FUEL SOURCE Unknown ☐ Electric ☒ Gas ☐			
CONDENSATION LINE Improper Drain ☐ Corrosion ☐ Leak ☐			
REFRIGERANT LINE Unsecured ☐ Not Insulated ☐ Leak ☐			
HRV/Air Exchanger Not Checked ☐	Not Applicable		
Dirty Filter ☐ Unsecured ☐ Corrosion ☐ Noisy ☐			
ELECTRIC HEATING Not Tested ☐	Not Applicable		
Forced Air ☐ Boiler ☐ Baseboard ☐ Radiant ☐			
Loose Connection ☐ Damaged Fins ☐ Corrosion ☐ Scorched ☐			



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BNSF Levee Remediation Properties, Skykomish

LIMITATION	Finished Basement ☐	Private/Water Shut Off ☐	Private System ☐	Other ☐
PUBLIC SUPPLY	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
SHUT-OFF VALVE	Location ☐	Corrosion ☐	Leak ☐	
	Not Tested ☐			
PRIVATE SUPPLY	Concealed ☐	Not Applicable		
SHUT-OFF VALVE	Location ☐			
	Not Tested ☐	Corrosion ☐	Leak ☐	
WELL PUMP	Submersible ☐	Jet ☐	Other ☐	
	Short Cycle ☐	Corrosion ☐	Leak ☐	
	Advise Well Water Quality/Recovery Test ☐			
STORAGE TANK	No Air Valve ☐	Corrosion ☐	Leak ☐	
WATER PRESSURE	Low ☐	Typical ☐	High ☐	
WATER QUALITY	Discoloration ☐	Debris ☐	Odor ☐	
	Test Declined ☐	Advise Water Quality Test ☐		
HOSE BIBB	Not Checked ☐	Operational		
Frost Free ☐	Anti-Siphon ☐	Shut Off Valve ☐		
Recaulk ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
DISTRIBUTION PIPING	Concealed ☒	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
Dissimilar Metal ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
CROSS CONNECTION	Kitchen ☐	Laundry ☐	Hose Bibb ☐	
WASTE DRAINAGE	Concealed ☒	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
	Advise Septic Tank Checked/Pumped ☐			
FLOOR DRAIN	None ☐	Backed-Up ☐	Mechanical/Faucet Primer ☐	
	No Water ☐	No Trap ☐		
SEWAGE PUMP	Not Checked ☐	Not Applicable		
VENT STACK/PIPING	Concealed ☐	No Visible Damage Noted		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Undersized ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
MAIN CLEANOUT	Concealed ☒	Not Applicable		
Improper Plug ☐	Location ☐			
HOT WATER TANK	Hybrid Heating ☐	Operational		
Power-Vented ☐	Own ☒	Rent ☐	Est. Capacity 50 US	
Gas/Propane ☐	Oil ☐	Wood/Coal ☐	Electric ☒	
Dirty/Rusty/Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
LIFE EXPECTANCY	Typical ☐	Middle/End ☒	Exceeded ☐	
FUEL SHUT-OFF	Concealed ☐	Location ☐		
RELIEF VALVE	No Test Lever ☐	Corrosion ☐	Other ☐	
DISCHARGE TUBE	Undersized ☐	Discharge ☐	Missing ☐	
VENTING	Flue ☐	Sidewall ☐	Not Applicable	
Improper Rise ☐	Unsecured ☐	Corrosion ☐	Soot ☐	
BURN CHAMBER	Not Checked ☐	Needs Adjustment ☐		
SUMP PUMP	Not Checked ☐	Not Applicable		
Submersible ☐	Standpipe ☐	To Exterior Grade ☐		
Float Checked ☐	No/Improper Cover ☐	Permanent Connection ☐		
Corrosion ☐	To Septic/Sewer ☐	Suspect Installation ☐		

MAIN STACK

Vent stack on south side of house does not meet requirements. It terminates too low. It should extend 6" above the roof. Photo # 30

HOT WATER TANK

50 gallon electric water heater is 11 years old. (Typical life expectancy is 12 to 15 years.) Photo # 23



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BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn ☐	No Drain ☐	No Visible Damage Noted	WALL
Concrete ☒	Vinyl ☒	Wood ☒	Ceramic ☐	<i>Crack in foundation wall at 125 5th St. N. (East). Photo #22.</i>
WALL	Patched ☐	Unfinished ☒	No Visible Damage Noted	CEILING
Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☒	Ceramic ☐	<i>125 5th St. N. (East): Stains noted, but measured dry. Previous leakage. Photo #24. Holes also observed in ceiling closer to furnace. Photo #25</i>
CEILING	Patched ☐	Unfinished ☒	No Visible Damage Noted	WINDOW
Drywall/Plaster ☒	Stipple ☐	Wood ☒	Tile ☐	<i>125 5th St. N. (East): Moisture stains observed at window sill. Photo #26</i>
WINDOW	Bounds ☐	Not Tested ☐	Not Applicable	LIGHTING
Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐	Bay/Bow ☐	<i>125 5th St. N. (East): Unsecured light near furnace. Photo #27</i>
Thermal ☒	Alum./Metal ☒	Vinyl Clad ☐	Wood ☐	
Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐	
DOOR	Bounds ☐	Damaged ☐	Not Applicable	
Pocket/BI-Fold ☐	Hinged ☐	Wood ☐	Composite ☐	
LIGHTING	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐		Operational	
Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐	
TUB / FAUCET	Unsecured ☐	Not Applicable		
Plastic ☐	Other ☐	Slow Drain ☐	Corrosion ☐	Leak ☐
TRAP / DRAIN	Unsecured ☐	Not Applicable		
Improper Trap ☐	Slow Drain ☐	Corrosion ☐		Leak ☐
WASHER	Make	Not Applicable		
DRYER	Make	Not Applicable		
DRYER VENT	Unsecured ☐	No Visible Damage Noted		
With Other Exhaust ☐	To Crawlspace ☐	To Attic ☐	Plastic Duct ☐	
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐	
Air Register ☐	Convactor/Radiator ☐	Radiant ☐		



FIREPLACE

TYPE	Built-In ☐	Free Standing ☐	Gas Insert ☐	Wood Insert ☐	Metal Liner ☐	Firebrick ☐	External Air Supply ☐
FIREPLACE FRONT	Soot/Stain ☐	Not Applicable					
Brick ☐	Ceramic ☐	Marble ☐	Stone ☐				
HEARTH	Raised ☐	None ☐	Not Applicable				
DOOR/ SCREEN	None ☐	Not Applicable					
Bounds ☐	Glass ☐	Metal ☐	Mesh ☐				
Poor Fit ☐	Unsecured ☐	Corrosion ☐	Crack ☐				
FIREBOX	Fan ☐	Not Checked ☐	Not Applicable				
DAMPER	None ☐	Not Applicable					
Sticks ☐	Unsecured ☐	Corrosion ☐	Creosote ☐				
GAS INSERT	Fan ☐	Not Tested ☐	Not Applicable				
WOOD/PELLET STOVE	Not Tested ☒	Not Applicable					
Soot ☐	Suspect Installation ☐	Certification Not Apparent ☐					
CHIMNEY FLUE	Not Checked ☐	Not Applicable					
Soot ☐	Unsecure/Improper ☐	Advise Inspection/Sweeping ☐					



LOCATION		Basement ☐	1st Floor ☒	2nd Floor ☐	3rd Floor ☐	Other ☐
WATER FLOW		Normal ☒	Suspect ☐	Low ☐		
FLOOR						
Worn ☐		Crack/Stain ☐	No Visible Damage Noted			
Carpet ☐		Vinyl ☒	Wood ☐	Ceramic ☐		
WALL						
Patched ☐		Crack/Stain ☐	No Visible Damage Noted			
Drywall/Plaster ☒		Brk/Blk/Stone ☐	Wood ☒	Ceramic ☒		
CEILING						
Patched ☐		Crack/Stain ☐	No Visible Damage Noted			
Drywall/Plaster ☒		Stip/Acoustic/WP. ☐	Wood ☐	Tile ☐		
WINDOW						
Binds ☐		Not Tested ☐	Operational			
Single/Dbl. Hung ☐		Cas./Awning ☐	Sliding ☐	Bay/Bow ☐		
Ther/Fix/Sng ☐		Alum./Metal ☒	Vinyl Clad ☐	Wood ☐		
Damaged ☐		Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐		
DOOR						
Binds ☐		Damaged ☐	Operational			
Pocket ☐		Hinged ☒	Wood ☒	Composite ☐		
LIGHTING						
None ☐		Unsecured ☐	Operational			
RECEPTACLE						
Damaged/No Cover ☐		Operational				
Install GFCI ☐		Reverse Polarity ☐	No Ground ☐	Open Ground ☐		
EXHAUST FAN						
Advise Installation ☐		Not Applicable				
SINK						
Worn ☐		Chip/Scratch ☐	No Visible Damage Noted			
Faucet ☐		No Shut-Off ☐	Operational			
Sticks ☐		Unsecured ☐	Corrosion ☐	Leak ☐		
TRAP/DRAIN						
Improper Trap ☐		Unsecured ☐	No Visible Damage Noted			
		Slow Drain ☐	Corrosion ☐	Leak ☐		
VANITY						
Worn ☐		Unsecured ☐	No Visible Damage Noted			
Laminate ☐		Plywood ☐	Wood ☒	Metal ☐		
Scratch ☐		Mildew/Stain ☐	Missing/Loose Hardware ☐			
COUNTER						
Unsecured ☐		No Visible Damage Noted				
Solid Surface ☒		Mtbl./Granite ☐	Laminate ☐	Ceramic ☐		
RegROUT/RecAulk ☐		Mildew/Stain ☐	Scratch ☐	Worn ☐		
TOILET						
No Shut-Off ☐		Operational				
Tank Loose ☐		Unsecured ☐	Crack ☐	Leak ☐		
TUB / ENCLOSURE						
Unsecured ☐		No Visible Damage Noted				
Ceramic ☒		Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
RegROUT/RecAulk ☐		Mildew/Stain ☐	Crack ☐	Worn ☐		
JETTED TUB						
Not Tested ☐		Not Applicable				
GFCI Protected ☐		Motor Access ☐	Corrosion ☐	Leak ☐		
FAUCET/SHOWER HEAD						
Not Tested ☐		Operational				
Sticks/Clogged ☐		Unsecured ☐	Corrosion ☐	Leak ☒		
SHOWER ENCLOSURE						
Unsecured ☐		Visible Damage Noted				
Ceramic ☐		Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
RegROUT/RecAulk ☐		Mildew/Stain ☐	Scratch ☐	Worn ☐		
FAUCET/SHOWER HEAD						
Not Tested ☐		Operational				
Sticks/Clogged ☐		Unsecured ☐	Corrosion ☐	Leak ☐		
HEAT SOURCE						
None ☐		Thermostat ☐	Electric ☒			
Air Register ☐		Convector/Radiator ☐	Radiant ☐			

FLOOR

Room photo # 67

TRAP DRAIN

Trap is disconnected under bathroom sink.

Photo # 13

TUB/ENCLOSURE

Leaky faucet and stain in bathtub. Photo # 12

SHOWER ENCLOSURE

Shower enclosure is in poor condition with chips, gaps and mildew. Photo # 11

HEAT SOURCE

Old wall heater did not operate when tested.

Photo # 10



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BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn Carpet ☒	Crack/Stain Vinyl ☒	No Visible Damage Noted	Wood ☐	Ceramic ☐
WALL	Patched ☐	Crack ☒	No Visible Damage Noted	Brk/Blk/Stone ☐	Wallpaper ☒
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	Drywall/Plaster ☒	Stip/Acoustic/W ☐
WINDOW	Bind ☐	Not Tested ☐	Operational	Single/Dbl. Hung ☐	Cas./Awning ☒
	Ther/Fix/Sng ☐	Alum./Metal ☒	Sliding ☒	Damaged ☐	Mildew/Mold ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	Pocket/Bi-Fold ☐	Hinged ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable	Sliding ☐	Hinged ☐
LIGHTING	None ☐	Unsecured ☐	Operational		
CEILING FAN	None ☐	Unsecured ☐	Not Applicable		
RECEPTACLE	Damaged/No Cover ☐		Operational		
	Install GFCI ☒	Reverse Polarity ☒	No Ground ☐	Open Ground ☐	
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted	Single ☐	Double ☒
FAUCET	No Shut-Off Valve ☐		Operational	Sticks ☐	Unsecured ☐
TRAP/DRAIN	Unsecured ☐		No Visible Damage Noted	Improper Trap ☐	Slow Drain ☐
COUNTER	Unsecured ☐		No Visible Damage Noted		
	Ceramic ☐	Marble/Granite ☐	Laminate ☒	Scratch ☐	Worn ☐
CABINET	Worn ☐	Unsecured ☐	No Visible Damage Noted	Laminate ☐	Plywood ☐
	Miss/Loose Hdwr ☐	Mildew/Stain ☐	Wood ☒	Scratch ☐	Other ☐
RANGE HOOD	Cooktop Exhaust ☐		Operational		
EXHAUST VENT	Corrosion ☐	No Exhaust ☐	No Light ☐	Noisy ☐	
FILTER	None ☐	Unsecured ☐	Ductless ☐	Concealed ☐	
	With Other Exhaust ☐	To Attic ☐	Improper ☐	To Exterior ☐	
			Damaged ☐	Greasy ☐	
MAJOR APPLIANCES (Built In)					
DISHWASHER	Not Applicable				
GARBAGE DISPOSAL	Not Applicable				
STOVE/OVEN/RANGE	Operational				
REFRIGERATOR	Operational				
MICROWAVE	Not Applicable				
	Tested On/Off ☐	Did Not Check All Functions/Full Cycle ☐			
HEAT SOURCE	None ☐	Thermost ☐	Electric ☐		
	Air Register ☒	Convactor/Radiator ☐	Radiant ☐		

FLOOR
Room Photo # 62 and 70

WALL
Patched area has separated at NW corner near sliding door. Photo # 37

RECEPTACLE
Two Receptacles have reverse polarity. One by old stove and other at left side of sink. Consult a professional electrician to repair.

[Install GFCI units to reduce potential shock hazards.]

SINK
Mold/mildew under kitchen sink. Photo # 19

MAJOR APPLIANCES
Old stove. Photo # 18



125 5th St. N - Mitchell East

LIVING ROOM

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BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☒	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack ☒	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐ Wallpaper ☒
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stipple ☐	Wood ☐ Tile ☐
WINDOW	Bounds ☐	Not Tested ☐	Not Applicable
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐ Bay/Bow ☐
	Ther/Fix/Sng ☒	Alum./Metal ☒	Vinyl Clad ☐ Wood ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bounds ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ French ☐
PATIO DOOR	Bounds ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐ No Ground ☐ Open Ground ☐	
HEAT SOURCE		None ☐ Thermostat ☐ Electric ☐	
	Air Register ☒	Convactor/Radiator ☐ Radiant ☐	

FLOORRoom Photos # 64 and 65

Floor is patched with plywood near wall.
Floor finish has been bleached from
sunlight. Photo # 6

WALL

Cracking observed with wallpaper
separation at East wall below window.
Photo # 1

LIGHTINGLight fixture is broken. Photo # 2Light fixture is crooked at Entry. Photo # 17

125 5th St. N - Mitchell East

DINING ROOM

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☒	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐ Wallpaper ☒
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stipple ☐	Wood ☐ Tile ☐
WINDOW	Bounds ☐	Not Tested ☐	Operational
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐ Bay/Bow ☐
	Thermal ☒	Alum./Metal ☒	Vinyl Clad ☐ Wood ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bounds ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ French ☐
PATIO DOOR	Bounds ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐ No Ground ☐ Open Ground ☐	
HEAT SOURCE		None ☐ Thermostat ☐ Electric ☐	
	Air Register ☒	Convactor/Radiator ☐ Radiant ☐	

FLOORRoom photo # 63**CEILING**

Joint cracks between ceiling and wall in
dining room. Separation and some
deterioration exist. Photos # 4 and 5

WINDOW

Failed seal between double panes of glass.
Window has fogged. Photo # 3



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FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☒	Vinyl ☐	Wood ☐ Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stn/ ☐	Wood ☒ Composite ☐
CEILING	Patched ☐	Crack/Stain ☒	Visible Damage Noted
	Drywall/Plaster ☒	Stipple ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐ Bay/Bow ☐
	Ther/Fix/Sng ☒	Alum./Metal ☒	Vinyl Clad ☐ Wood ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational
	Pocket/Bi-Fold ☐	Hinged ☒	Wood ☒ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Operational
	Light ☐	Hinged ☐	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOORRoom photos: SE # 66, SW # 68, NW # 69**WALL**Front SE bedroom: Cracking at wall and wallpaper observed below windows.
Photos # 7,8,9SW bedroom: cracks below windows.Photo # 14**CEILING**NW bedroom: Stains and cracks noted, but measured dry. Possible previous leakage from roof.

BEDROOM

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable
	Carpet ☐	Vinyl ☐	Wood ☐ Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Brk/Blk/Stn/ ☐	Wood ☐ Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Stipple ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐ Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl Clad ☐ Wood ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Light ☐	Hinged ☐	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Not Applicable
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐



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LIMITATION: Restricted/No Access ☐ Debris/Obstruction ☐ Snow/Ice Cover ☐ Vegetation/Tree/Shrub ☐
CONDITIONS: Clear/Sunny ☒ Cloudy/Overcast ☐ Rain/Snow ☐ Approx. Temperature 75
Dry Ground ☒ Approx. Hydrant Distance

BUILDING Approx. Years Old Condo ☐ Rural ☐
Bungalow/Ranch ☒ Bi-Level ☐ 2 Story ☐ 3 Story ☐
Semi-Detached ☐ Plex Row/Town ☐ Other ☐

BUILDING
House photos # 45,46 and 15

LANDSCAPING Slope to House ☐ Not Applicable
Flower Bed ☐ Hedge/Shrub ☐ Tree/Vine ☐ Ravine ☐
Earth to Wood ☐ Site Erosion ☐ No Swale ☐ Other ☐

DRIVEWAY Slopes to House ☐ Not Applicable
Paving Stone ☐ Gravel ☐ Concrete ☐ Asphalt ☐

WALKWAY/PATH Slopes to House ☐ Not Applicable
Paving Stone ☐ Patio Block ☐ Concrete ☐ Asphalt ☐

PORCH Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☒ Concrete ☐ Brick/Block ☐
Crack/Spalling ☐ Corrosion ☐ Rot ☐ Repaint ☐

LIGHTING None ☐ Unsecured ☐ Operational

RECEPTACLE Damaged/No Cover ☐ Not Applicable

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

DECK/ PATIO Unsecured ☐ No Visible Damage Noted
Wood ☒ Brick/Block ☐ Concrete ☐ Metal ☐
Slope to House ☐ Paving Stone ☐ Patio Block ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Mold/Mildew ☐ Rot ☐

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

RETAINING WALL Not Stable ☐ Not Applicable
No Weep Holes ☐ Wood ☐ Concrete ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Rot ☐ Leans ☐



For the purpose of this report your house faces:

FRONT



Pillar To Post

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BNSF Levee Remediation Properties, Skykomish

LIMITATION	Clearance ☐	Seasonal Storm Window ☐	Debris/Obstruction ☐	Shrub/Tree/Hedge/Vines/Ivy ☐
	Snow/Ice Cover ☐	Restricted/No Access ☐	Parged ☐	Other ☐
FOUNDATION WALL	Not Exposed ☒	Not Applicable		
Poured Concrete ☐	Block ☐	Brick ☐	Stone ☐	
Exterior Rigid Insulation ☐	PWF/Wood ☐	Piling/Pier ☐		
Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Frost Heave ☐	
WALL SURFACE	No Ground Clearance ☐	No Visible Damage		
Aluminum ☐	Composite ☐	Brick/Block ☐	Stone ☐	
Stucco ☐	Vinyl Siding ☐	Wood Siding ☒	Steel/Shgl ☐	
Split/Loose ☐	Repoint ☐	Repaint ☐	Recaulk ☐	
Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Blister/Peel ☐	
WINDOWS	Inspected with Binoculars ☐	Visible Damage Noted		
Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐	
Weather-strip ☐	Mildew/Mold ☐	Rot ☒	Poor Trim ☐	
WINDOW WELL	Improper Drainage ☐	Not Applicable		
DOORS	Binds ☐	Damaged ☒	Operational	
Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐	
Weather-strip ☐	Mildew/Mold ☐	Rot ☒	Split/Dent ☐	
LIGHTING	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Operational		
Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐	
BASEMENT WALKOUT	Covered ☐	Not Applicable		
Poor Condition ☐	No Railing ☐	No Drain ☐	Leak ☐	
Crack/Spalling ☐	Mildew/Mold ☐	Frost Heave ☐	Reparge ☐	

WINDOWS

Advanced wood rot at west living room windows. Repairs are necessary. Photo # 48

DOORS

Delaminated door and rotted trim at 'garage' access door. Repairs are needed.

**GARAGE / CARPORT**

TYPE	Attached ☐	Built-In ☒	Detached ☐	Single ☐	Double ☐	Insulated/Heated ☐	Attic Access ☐
DOOR	Binds ☐	Damaged ☐	Not Applicable				
Automatic ☐	Sectional ☒	Wood ☐	Metal ☐				
Adjust Auto Stop ☐	No Safety Stop ☐	Stain/Rot ☐	Corrosion ☐				
FLOOR	Crack ☐	Settlement ☐	Not Applicable				
Asphalt ☐	Concrete ☐	Gravel ☐	Stain/Rot ☐				
WALL	No Fire Barrier ☐	No Visible Damage Noted					
Drywall/Plaster ☐	Brk/Blk/Stone ☐	Wood ☐	Stain/Rot ☐				
WINDOW	Binds ☐	Damaged ☐	Not Applicable				
CEILING	No Fire Barrier ☐	No Visible Damage Noted					
Drywall/Plaster ☐	Crack ☐	Wood ☐	Stain/Rot ☐				
LIGHTING	None ☐	Unsecured ☐	Not Applicable				
RECEPTACLE	Damaged/No Cover ☐	Not Applicable					
Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐				
CIRCUIT WIRE	Concealed ☐	Unsecured ☐	Improper ☐				
ACCESS DOOR	To	Not Applicable					
Auto Door Close ☐	Metal Clad ☐	Wood ☐	Composite ☐				
Gas Proof ☐	Damaged ☐	Stain/Rot ☐	Corrosion ☐				



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BNSF Levee Remediation Properties, Skykomish

INSPECTED BY:		Binocular ☐	Roof Edge ☒	Walk On ☐	No Access ☐
LIMITATION		Deck/Patio ☐	Gravel/Flat ☐	Height ☐	Steep Slope ☐
		Solar Panel ☐	Fragile ☐	Other ☐	Rain/Snow/Ice Cover ☐
MAIN ROOF		Flat ☐	Gable ☒	Valley ☒	Hip ☐
			Shed ☐	Other ☐	Est. Age
					Pitch 6/12
GUTTER/DOWNSPOUT		Unsecured ☐	Not Applicable		
TYPE		Aluminum ☐	Galvanized ☐	Copper ☐	Plastic ☐
		Incomplete ☐	Dent/Split ☐	Corrosion ☐	Leak ☐
DRAINAGE		Above Ground ☐	Below Ground ☐	Spill/Roof ☐	
		Extend Leader ☐	Redirect Leader ☐	Clean ☐	
FASCIA/SOFFIT		Not Vented ☐	No Visible Damage Noted		
		Aluminum ☐	Wood ☒	Vinyl ☐	Other ☐
		Loose ☐	Mildew/Mold ☐	Stain/Rot ☒	Corrosion ☐
COVERING # of Layers 1		No Visible Damage Noted			
		Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
		Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☒	Other ☐
		Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
		Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
		Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	
LIFE EXPECTANCY		Typical ☒	Middle/End ☐	Exceeded ☐	
ACCESSORY		Unsecured ☐	No Visible Damage Noted		
		Air/Exhaust Vent ☐	Vent Stack ☒	Turbine ☐	Elec. Mast ☐
		Solar Panel ☐	Skylight ☐	Antenna ☐	Dish ☐
FLASHING		Not Checked/Concealed ☐	No Visible Damage Noted		
		Chimney ☐	Dormer ☐	Drip Edge ☐	Flat Roof ☐
		Skylight ☐	Roof to Wall ☐	Stack ☒	Valley ☐
		Roll Roofing ☐	Alum./Galv. ☐	Copper/Lead ☐	Rubber ☒
		Gap/Loose/Crack ☐	Deterioration ☐	Corrosion ☐	Tarred ☐
		Reseal/Recaulk ☐	Improper ☐	Replace When Re-Roofing ☐	
CHIMNEY / VENT		Leaning ☐	Not Applicable		
		Fireplace ☐	Furnace ☐	Gas Insert ☐	Other ☐
		Brk/Blk/Stone ☐	Metal ☐	Wood ☐	Stucco ☐
		Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐
		Abandoned ☐	No Wind Cap ☐	Metal Liner Required ☐	
CHIMNEY CAP		None ☐	Not Applicable		
		Concrete ☐	Masonry ☐	Metal ☐	Other ☐
		Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐
VISIBLE FLUE LINER		None ☐	Not Applicable		
		Brick/Block ☐	Clay/Concrete ☐	Metal ☐	Metal Insert ☐
		Rain Cap ☐	Deterioration ☐	Corrosion ☐	Loose ☐
		Crack/Spalling ☐	Improper ☐	Advise Cleaning/Sweeping ☐	
SECONDARY ROOF		Flat ☐	Gable ☐	Hip/Valley ☐	Shed ☐
				Other ☐	Est. Age
					Pitch
COVERING # of Layers 1		Not Applicable			
		Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
		Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☐	
		Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
		Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
		Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	
LIFE EXPECTANCY		Typical ☐	Middle/End ☐	Exceeded ☐	

GUTTER/DOWNSPOUT**No gutters****FASCIA/SOFFIT****Rot observed at rafter tail and fascia at NW corner. Photo # 71**



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BNSF Levee Remediation Properties, Skykomish

LIMITATION: No Access ☐ Sealed ☐ Stored Items ☒ Looked In ☒ Entered ☐ Hatch ☒ Pull Down ☐ Insulated ☒			
STRUCTURE		No Visible Damage Noted	
Truss ☐	Rafter ☒		
Warped ☐	Stain/Rot ☐	Sag/Loose ☐	Split ☐
SHEATHING		Not Applicable	
Composite ☐	Condensation ☐		
R Felt/R Paper ☐	Mildew/Mold ☐	Plywood ☐	Board ☐
		Sag/Loose ☐	Stain/Rot ☐
INSULATION		Not Applicable	
Estimated Depth			
Radiant Barrier ☐	Concealed ☒	Finished ☐	None ☐
Vapor Barrier ☐	Fibreglass ☐	Mineral ☐	Cellulose ☐
Wood Shavings ☐	Rigid Plastic ☐	Foam ☐	Other ☐
Batt ☐	Blown/Loose ☐	Sprayed ☐	Required ☐
VENTILATION		No Visible Damage Noted	
None ☐			
Soffit ☐	Gable End ☒	Turbine ☐	Mechanical ☐
Baffles ☐	Roof/Ridge ☐	Blocked ☐	Required ☐
EXHAUST DUCT		Not Applicable	
Concealed ☐			
Not Insulated ☐	Into Attic ☐	Plastic/Flex ☐	Metal ☐
ELECTRICAL		Not Applicable	
Concealed ☒			
Abandoned ☐	Knob & Tube ☐	Open Splice ☐	Frayed ☐

STRUCTUREStored items in attic space - photos # 59, 60Plumbing pipes in attic - photo # 61

125 5th St N - Mitchell West

ELECTRICAL SERVICE / PANEL

SERVICE ENTRANCE				DISTRIBUTION PANEL	
Underground ☐	Overhead ☐	No Conduit ☐			
120-Volt ☐	120/240 Volt ☒	Unsecured ☐	Frayed ☐	<u>200 Amp panel - photo # 54</u>	
ENTRANCE CABLE					
Concealed ☐		Aluminum ☐	Copper ☐		
MAIN DISCONNECT		Switch/Cartridge Fuse ☐ Breaker ☒			
DISCONNECT RATING		200 Amps Have Electrician Evaluate ☐			
DISTRIBUTION PANEL		No Visible Damage Noted			
Not Opened ☐		Non Standard Installation ☐			
Location		Corrosion ☐ Obsolete ☐			
Obstructed ☐		Unsecured ☐ Room for Expansion ☒			
PANEL RATING		200 Amps			
FUSE Breaker ☒		Glass/Screw ☐ Cartridge ☐ Time Delay ☐			
GFCI Breaker ☐		AFCI Breaker ☐ Blown/Broken ☐ Over-Fused ☐			
CIRCUIT WIRE		Not Applicable			
Improper ☐					
Aluminum ☐		Copper ☐	Copper Clad ☐	Other ☐	
Non - Metallic Sheathed ☐		Armoured Cable ☐		Knob & Tube ☐	
Double Tapping ☐		Spliced ☐		Corrosion ☐ Scorched ☐	
GROUNDING		Concealed ☐ Ground Rod ☐ Water Main ☐			
Improper Connection/Installation ☐		Meter By-Pass/Jumper ☐			
BONDING		Concealed ☐ Water Pipe ☐ Gas Pipe ☐			
Improper Connection/Installation ☐		Corrosion ☐ Unsecured ☐			
AUXILIARY PANEL		Not Applicable			
Concealed ☐					
Location		Non Standard Installation ☐			
Not Opened ☐		Unsecured ☐ Corrosion ☐ Obsolete ☐			
DISCONNECT RATING		0 Amps Have Electrician Evaluate ☐			
PANEL RATING		0 Amps Room for Expansion ☐			
FUSE Breaker ☐		Glass/Screw ☐ Cartridge ☐ Time Delay ☐			
GFCI Breaker ☐		Blown/Broken ☐ Over-Fused ☐ Scorched ☐			



Pillar To Post

125 5th St. N - Mitchell West

PLUMBING COMPONENTS

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LIMITATION	Finished Basement ☐	Private/Water Shut Off ☐	Private System ☐	Other ☐
PUBLIC SUPPLY	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
SHUT-OFF VALVE	Location ☐	Corrosion ☐	Leak ☐	
	Not Tested ☐			
PRIVATE SUPPLY	Concealed ☐	Not Applicable		
SHUT-OFF VALVE	Location ☐			
	Not Tested ☐	Corrosion ☐	Leak ☐	
WELL PUMP	Submersible ☐	Jet ☐	Other ☐	
	Short Cycle ☐	Corrosion ☐	Leak ☐	
	Advise Well Water Quality/Recovery Test ☐			
STORAGE TANK	No Air Valve ☐	Corrosion ☐	Leak ☐	
WATER PRESSURE	Low ☐	Typical ☐	High ☐	
WATER QUALITY	Discoloration ☐	Debris ☐	Odor ☐	
	Test Declined ☐	Advise Water Quality Test ☐		
HOSE BIBB	Not Checked ☐	Not Applicable		
Frost Free ☐	Anti-Siphon ☐	Shut Off Valve ☐		
Recaulk ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
DISTRIBUTION PIPING	Concealed ☒	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☒	
Dissimilar Metal ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
CROSS CONNECTION	Kitchen ☐	Laundry ☐	Hose Bibb ☐	
WASTE DRAINAGE	Concealed ☒	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☒	Copper ☐	
Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
	Advise Septic Tank Checked/Pumped ☐			
FLOOR DRAIN	Mechanical/Faucet Primer ☐			
None ☐	Backed-Up ☐	No Water ☐	No Trap ☐	
SEWAGE PUMP	Not Checked ☐	Not Applicable		
VENT STACK/PIPING	Concealed ☐	No Visible Damage Noted		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☒	Copper ☐	
Undersized ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
MAIN CLEANOUT	Concealed ☐	Not Applicable		
	Improper Plug ☐	Location ☐		
HOT WATER TANK	Hybrid Heating ☐	Not Applicable		
Power-Vented ☐	Own ☐	Rent ☐	Est. Capacity ☐	IG ☐
Gas/Propane ☐	Oil ☐	Wood/Coal ☐	Electric ☐	
Dirty/Rusty/Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
LIFE EXPECTANCY	Typical ☐	Middle/End ☐	Exceeded ☐	
FUEL SHUT-OFF	Concealed ☐	Location ☐		
RELIEF VALVE	No Test Lever ☐	Corrosion ☐	Other ☐	
DISCHARGE TUBE	Undersized ☐	Discharge ☐	Missing ☐	
VENTING	Flue ☐	Sidewall ☐	Not Applicable	
Improper Rise ☐	Unsecured ☐	Corrosion ☐	Soot ☐	
BURN CHAMBER	Not Checked ☐	Needs Adjustment ☐		
SUMP PUMP	Not Checked ☐	Not Applicable		
Submersible ☐	Standpipe ☐	To Exterior Grade ☐		
Float Checked ☐	No/Improper Cover ☐	Permanent Connection ☐		
Corrosion ☐	To Septic/Sewer ☐	Suspect Installation ☐		

MAIN STACK

Main stack appears to be undersized. Have evaluated by a licensed plumber. Main plumbing stack should be vented approximately 8" above roof. Photo # 47



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LOCATION		Basement ☐	1st Floor ☐	2nd Floor ☐	3rd Floor ☐	Other ☐
WATER FLOW		Normal ☐	Suspect ☐	Low ☐	FLOOR	
		<u>Gaps between floor and bathtub and wall, Caulk. Photo # 55</u>				
FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted			
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐		
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted			
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood/WP. ☐	Ceramic ☐		
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted			
	Drywall/Plaster ☒	Stip/Acoustic/WP. ☐	Wood ☐	Tile ☐		
WINDOW	Bind ☐	Not Tested ☐	Operational			
	Single/Dbt. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐		
	Thermal ☒	Alum./Metal ☐	Vinyl/V.Cl ☐	Wd./Vnyl/Fx ☐		
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐		
DOOR	Bind ☐	Damaged ☐	Operational			
	Pocket ☐	Hinged ☒	Wood ☒	Composite ☐		
LIGHTING	None ☐	Unsecured ☐	Operational			
RECEPTACLE	Damaged/No Cover ☐	Operational				
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐		
EXHAUST FAN	Advise Installation ☐	Operational				
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted			
FAUCET		No Shut-Off ☐	Operational			
	Sticks ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
TRAP/DRAIN		Unsecured ☐	No Visible Damage Noted			
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐	Leak ☐		
VANITY	Worn ☐	Unsecured ☐	No Visible Damage Noted			
	Laminate ☐	Plywood ☐	Wood ☒	Metal ☐		
	Scratch ☐	Mildew/Stain ☐	Missing/Loose Hardware ☐			
COUNTER		Unsecured ☐	No Visible Damage Noted			
	Solid Surface ☐	Mtbl./Granite ☐	Laminate ☐	Ceramic ☐		
	RegROUT/RecAulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐		
TOILET		No Shut-Off ☐	Operational			
	Tank Loose ☐	Unsecured ☐	Crack ☐	Leak ☐		
TUB / ENCLOSURE		Unsecured ☐	No Visible Damage Noted			
	Ceramic ☐	Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
	RegROUT/RecAulk ☐	Mildew/Stain ☐	Crack ☐	Worn ☐		
JETTED TUB		Not Tested ☐	Not Applicable			
	GFCI Protected ☐	Motor Access ☐	Corrosion ☐	Leak ☐		
FAUCET/SHOWER HEAD		Not Tested ☐	Operational			
	Sticks/Clogged ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
SHOWER ENCLOSURE		Unsecured ☐	Not Applicable			
	Ceramic ☐	Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
	RegROUT/RecAulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐		
FAUCET/SHOWER HEAD		Not Tested ☐	Not Applicable			
	Sticks/Clogged ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
HEAT SOURCE		None ☐	Thermostat ☐	Electric ☐		
	Air Register ☐	Convector/Radiator ☐	Radiant ☐			



Pillar To Post

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125 5th St N - Mitchell West

BNSF Levee Remediation Properties, Skykomish

KITCHEN

FLOOR	Worn ☐	Crack/Stain ☐	Wood ☒	Not Applicable ☐
	Carpet ☐	Vinyl ☐		Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wallpaper ☐	Ceramic ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☒	Tile ☐
WINDOW	Bounds ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Thermal ☒	Alum./Metal ☐	Vinyl/W.Cld ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bounds ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
PATIO DOOR	Bounds ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Operational	
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted	
	Single ☐	Double ☒	Stainless ☐	Enamel ☒
FAUCET	No Shut-Off Valve ☐		Operational	
	Sticks ☐	Unsecured ☐	Corrosion ☐	Leak ☐
TRAP/DRAIN	Unsecured ☐		No Visible Damage Noted	
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐	Leak ☐
COUNTER	Unsecured ☐		No Visible Damage Noted	
	Ceramic ☐	Marble/Granite ☐	Laminate ☒	Solid Surf. ☐
	RegROUT/Recaulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐
CABINET	Worn ☐	Unsecured ☐	No Visible Damage Noted	
	Laminate ☐	Plywood ☐	Wood ☒	Metal ☐
	Miss/Loose Hdwr ☐	Mildew/Stain ☐	Scratch ☐	Other ☐
RANGE HOOD	Cooktop Exhaust ☐		Operational	
	Corrosion ☐	No Exhaust ☐	No Light ☐	Noisy ☐
EXHAUST VENT	Unsecured ☐		Ductless ☐	Concealed ☐
	With Other Exhaust ☐	To Attic ☐	Improper ☐	To Exterior ☐
FILTER	None ☐	Unsecured ☐	Damaged ☐	Greasy ☐
MAJOR APPLIANCES (Built In)				
DISHWASHER				Not Applicable
GARBAGE DISPOSAL				Not Applicable
STOVE/OVEN/RANGE				Operational
REFRIGERATOR				Not Applicable
MICROWAVE				Not Applicable
	Tested On/Off ☐	Did Not Check All Functions/Full Cycle ☐		
HEAT SOURCE	None ☐	Thermost ☐	Electric ☐	
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR
Room photo # 53



Pillar To Post

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125 5th St N - Mitchell West

BNSF Levee Remediation Properties, Skykomish

LIVING ROOM

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable	
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☐	Stip/Acoustic ☐	Wood ☒	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational	
	Single/Dbl. Hung ☐	Cas./Awning ☒	Sliding/Fxd ☐	Bay/Bow ☐
	Thermal ☒	Alum./Metal ☐	Vinyl/V. Cld ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☐		Thermostat ☐	Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR
Room photo # 50

**Water stain at window, wall and floor
 appears to originate from damaged window
 (see photo # 48) - photo # 51**

**Gaps and separation at wood floor. Photo #
 52**



Pillar To Post

DINING ROOM

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable	
	Carpet ☐	Vinyl ☐	Wood/Lam. ☐	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Stip/Acoustic ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V. Cld ☐	
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐	Not Applicable		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☐		Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	



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FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stn ☐	Wood/WP. ☐ Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Thermal ☒	Alum./Metal ☐	Vinyl/V.Cl ☐ Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational
	Pocket/Bi-Fold ☐	Hinged ☒	Wood ☒ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Operational
	Light ☐	Hinged ☒	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOOR
Room Photo # 56

Gaps, stains and warping from past moisture. Photo # 57

CLOSET DOOR
Cut-out sections exist in closet wall. Shelves are crooked. Photo # 58

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable
	Carpet ☐	Vinyl ☐	Wood/Lam ☐ Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Brk/Blk/Stn ☐	Wood/WP. ☐ Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cl ☐ Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Light ☐	Hinged ☐	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Not Applicable
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐



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LIMITATION: Restricted/No Access ☐ Debris/Obstruction ☐ Snow/Ice Cover ☐ Vegetation/Tree/Shrub ☐
CONDITIONS: Clear/Sunny ☒ Cloudy/Overcast ☐ Rain/Snow ☐ Approx. Temperature 75
Dry Ground ☒ Approx. Hydrant Distance

BUILDING Approx. Years Old Condo ☐ Rural ☐
Bungalow ☒ Bi-Level ☐ 2 Story ☐ 3 Story ☐
Semi-Detached ☐ Plex Row/Town ☐ Other ☐

BUILDING**House photos: Front # 73, Back # 74**

LANDSCAPING Slope to House ☐ Not Applicable
Flower Bed ☐ Hedge/Shrub ☐ Tree/Vine ☐ Ravine ☐
Earth to Wood ☐ Site Erosion ☐ No Swale ☐ Other ☐

FRONT PORCH**Composite "LP" siding at skirting at lower portion of front porch. Photo # 79**

DRIVEWAY Slopes to House ☐ Not Applicable
Paving Stone ☐ Gravel ☐ Concrete ☐ Asphalt ☐

WALKWAY/PATH Slopes to House ☐ Not Applicable
Paving Stone ☐ Patio Block ☐ Concrete ☐ Asphalt ☐

PORCH Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☒ Concrete ☐ Brick/Block ☐
Crack/Spalling ☐ Corrosion ☐ Rot ☐ Repaint ☐

LIGHTING None ☐ Unsecured ☐ Not Applicable

RECEPTACLE Damaged/No Cover ☐ Not Applicable

RAILING Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☒ Incomplete ☐ None ☐

DECK/ PATIO Unsecured ☐ No Visible Damage Noted
Composite/Wood ☒ Brick/Block ☐ Concrete ☐ Metal ☐
Slope to House ☐ Paving Stone ☐ Patio Block ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Mold/Mildew ☐ Rot ☐

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

RETAINING WALL Not Stable ☐ Not Applicable
No Weep Holes ☐ Wood ☐ Concrete ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Rot ☐ Leans ☐



For the purpose of this report your house faces:

FRONT



124 W River Road - Mackner House

EXTERIOR

6/12/2006 7:02:24 AM BNSF Levee Remediation Properties, Skykomish

LIMITATION	Clearance ☐	Seasonal Storm Window ☐	Debris/Obstruction ☐	Shrub/Tree/Hedge/Vines/Ivy ☐
	Snow/Ice Cover ☐	Restricted/No Access ☐	Parged ☐	Other ☐
FOUNDATION WALL	Not Exposed ☐	Not Applicable		
	Poured Concrete ☐	Block ☐	Brick ☐	Stone ☐
	Exterior Rigid Insulation ☐	PWF/Wood ☐	Piling/Pier ☐	
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Frost Heave ☐
WALL SURFACE	No Ground Clearance ☐	No Visible Damage		
	Aluminum ☐	Composite ☐	Brick/Block ☐	Stone ☐
	Stucco ☐	Vinyl Siding ☐	Wood Siding ☒	Steel/Shgl ☐
	Split/Loose ☐	Repoint ☐	Repaint ☐	Recaulk ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Blister/Peel ☐
WINDOWS	Inspected with Binoculars ☐	No Visible Damage Noted		
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Poor Trim ☐
WINDOW WELL	Improper Drainage ☐	Not Applicable		
DOORS	Bind ☐	Damaged ☐	Operational	
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Split/Dent ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Not Applicable		
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
BASEMENT WALKOUT	Covered ☐	Not Applicable		
	Poor Condition ☐	No Railing ☐	No Drain ☐	Leak ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Frost Heave ☐	Repare ☐



124 W River Road - Mackner House

GARAGE / CARPORT

TYPE	Attached ☐	Built-In ☐	Detached ☒	Single ☒	Double ☐	Insulated/Heated ☐	Attic Access ☐
DOOR	Bind ☐	Damaged ☐	Operational		DOOR		
	Automatic ☐	Sectional ☒	Wood ☐	Metal ☒	Photo #74		
	Adjust Auto Stop ☐	No Safety Stop ☐	Stain/Rot ☐	Corrosion ☐	WALL		
FLOOR	Crack ☐	Settlement ☐	No Visible Damage Noted		Inside photos # 102-105		
	Asphalt ☐	Concrete ☒	Gravel ☐	Stain/Rot ☐	#106 - Electrical shut-off		
WALL	No Fire Barrier ☐	No Visible Damage Noted		Exterior paint - peeling - photo # 107			
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☒	Stain ☒			
WINDOW	Bind ☐	Damaged ☐	Not Applicable				
CEILING	No Fire Barrier ☐	No Visible Damage Noted					
	Drywall/Plaster ☐	Crack ☐	Wood ☒	Stain/Rot ☐			
LIGHTING	None ☐	Unsecured ☐	Operational				
RECEPTACLE	Damaged/No Cover ☐	Operational					
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐			
CIRCUIT WIRE	Concealed ☐	Unsecured ☐	Improper				
ACCESS DOOR	To exterior	Operational					
	Auto Door Close ☐	Metal Clad ☐	Wood ☒	Composite ☐			
	Gas Proof ☐	Damaged ☐	Stain/Rot ☐	Corrosion ☐			



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INSPECTED BY:		Binocular ☐	Roof Edge ☒	Walk On ☐	No Access ☐
LIMITATION		Deck/Patio ☐	Gravel/Flat ☐	Height ☐	Steep Slope ☐
		Solar Panel ☐	Fragile ☐	Other ☐	Rain/Snow/Ice Cover ☐
MAIN ROOF		Flat ☐	Gable ☒	Valley ☐	Hip ☐
		Shed ☐	Other ☐	Est. Age	Pitch 6/12
GUTTER/DOWNSPOUT		Unsecured ☐	Not Applicable		
TYPE		Aluminum ☐	Galvanized ☐	Copper ☐	Plastic ☐
		Incomplete ☐	Dent/Split ☐	Corrosion ☐	Leak ☐
DRAINAGE		Above Ground ☐	Below Ground ☐	Spill/Roof ☐	FASCIA/SOFFIT
		Extend Leader ☐	Redirect Leader ☐	Clean ☐	<i>Soffit paint is peeling (also at some windows and at porch). Photo's # 76, 77</i>
FASCIA/SOFFIT		Not Vented ☐	Visible Damage Noted		
		Aluminum ☐	Wood ☒	Vinyl ☐	Other ☐
		Loose ☐	Mildew/Mold ☐	Stain/Rot ☐	Corrosion ☐
COVERING # of Layers 1		No Visible Damage Noted			
Asphalt Shingle ☐		Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐	
Fiberglass Shingle ☐		Tar/Gravel ☐	Metal ☒	Other ☐	
Nail Pop/Exposed ☐		Loose/Missing ☐	Broken ☐	Crack ☐	
Patched ☐		Mildew/Mold ☐	Stain/Rot ☐	Worn ☐	
Curl/Claw ☐		Fungus/Moss ☐	Improper Installation ☐		
LIFE EXPECTANCY		Typical ☒	Middle/End ☐	Exceeded ☐	
ACCESSORY		Unsecured ☐	No Visible Damage Noted		
Air/Exhaust Vent ☐		Vent Stack ☒	Turbine ☐	Elec. Mast ☒	
Solar Panel ☐		Skylight ☐	Antenna ☐	Dish ☐	
FLASHING		Not Checked/Concealed ☐	Not Applicable		
Chimney ☐		Dormer ☐	Drip Edge ☐	Flat Roof ☐	
Skylight ☐		Roof to Wall ☐	Stack ☒	Valley ☐	
Roll Roofing ☐		Alum./Galv. ☒	Copper/Lead ☐	Rubber ☐	
Gap/Loose/Crack ☐		Deterioration ☐	Corrosion ☐	Tarred ☐	
Reseal/Recaulk ☐		Improper ☐	Replace When Re-Roofing ☐		
CHIMNEY / VENT		Leaning ☐	Not Applicable		
Fireplace ☐		Furnace ☐	Gas Insert ☐	Other ☐	
Brk/Blk/Stone ☐		Metal ☐	Wood ☐	Stucco ☐	
Crack/Spalling ☐		Deterioration ☐	Corrosion ☐	Loose ☐	
Abandoned ☐		No Wind Cap ☐	Metal Liner Required ☐		
CHIMNEY CAP		None ☐	Not Applicable		
Concrete ☐		Masonry ☐	Metal ☐	Other ☐	
Crack/Spalling ☐		Deterioration ☐	Corrosion ☐	Loose ☐	
VISIBLE FLUE LINER		None ☐	Not Applicable		
Brick/Block ☐		Clay/Concrete ☐	Metal ☐	Metal Insert ☐	
Rain Cap ☐		Deterioration ☐	Corrosion ☐	Loose ☐	
Crack/Spalling ☐		Improper ☐	Advise Cleaning/Sweeping ☐		
SECONDARY ROOF		Flat ☐	Gable ☒	Hip/Valley ☐	Shed ☐
		Other ☐	Est. Age	Pitch	
COVERING # of Layers 1		No Visible Damage Noted			
Asphalt Shingle ☐		Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐	
Fiberglass Shingle ☐		Tar/Gravel ☐	Metal ☒	Other ☐	
Nail Pop/Exposed ☐		Loose/Missing ☐	Broken ☐	Crack ☐	
Patched ☐		Mildew/Mold ☐	Stain/Rot ☐	Worn ☐	
Curl/Claw ☐		Fungus/Moss ☐	Improper Installation ☐		
LIFE EXPECTANCY		Typical ☒	Middle/End ☐	Exceeded ☐	

Extra Comments Continued Next Page...



COVERING

Minor dents in metal garage roof. Photo # 108 (no gutters)

Exposed electric cable from house with no conduit. Photo # 109



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124 W River Road - Mackner House

ATTIC

BNSF Levee Remediation Properties, Skykomish

LIMITATION: No Access ☐ Sealed ☐ Stored Items ☐ Looked In ☐ Entered ☒ Hatch ☐ Pull Down ☐ Insulated ☒			
STRUCTURE		No Visible Damage Noted	
Truss ☐ Rafter ☒	Warped ☐ Stain/Rot ☐	Sag/Loose ☐ Split ☐	
SHEATHING		No Visible Damage Noted	
Composite ☐ Thermal Board ☐	Condensation ☐	Plywood ☐ Board ☒	
R Felt/R Paper ☐ Mildew/Mold ☐	Sag/Loose ☐ Stain/Rot ☐		
INSULATION		No Visible Damage Noted	
Estimated Depth 10-12"	Radiant Barrier ☐ Concealed ☐	Finished ☐ None ☐	
Vapor Barrier ☐ Fibreglass ☒	Wood Shavings ☐ Rigid Plastic ☐	Mineral ☐ Cellulose ☐	
Batt ☒ Blown/Loose ☐	Sprayed ☐ Required ☐	Foam ☐ Other ☐	
VENTILATION		No Visible Damage Noted	
None ☐	Soffit ☐ Gable End ☒	Turbine ☐ Mechanical ☐	
Baffles ☐ Roof/Ridge ☐	Blocked ☐ Required ☐		
EXHAUST DUCT		Not Applicable	
Concealed ☐ Into Attic ☐	Not Insulated ☐	Plastic/Flex ☐ Metal ☐	
ELECTRICAL		No Visible Damage Noted	
Concealed ☐	Abandoned ☐ Knob & Tube ☒	Open Splice ☒ Frayed ☐	

STRUCTUREStructure photos # 95,96Abandoned chimney and evidence of past fire - slight charring at rafters. Photo #'s 97 & 99**ELECTRICAL**Open junction boxes. Photo #'s 94, 98Active Knob & Tube wiring. Photo # 100Abandoned Romex cable - no electrical current detected. Photo # 101

124 W River Road - Mackner House

ELECTRICAL SERVICE / PANEL

SERVICE ENTRANCE		No Visible Damage Noted	
Underground ☐ Overhead ☒	120-Volt ☐ 120/240 Volt ☐	Unsecured ☐ Frayed ☐	
ENTRANCE CABLE		Not Applicable	
Concealed ☐ Aluminum ☐ Copper ☐	Switch/Cartridge Fuse ☐ Breaker ☒		
MAIN DISCONNECT		Not Applicable	
Disconnect Rating 125 Amps	Have Electrician Evaluate ☐		
DISTRIBUTION PANEL		No Visible Damage Noted	
Not Opened ☐	Location	Non Standard Installation ☐	
Obstructed ☐ Unsecured ☐	PANEL RATING 125 Amps	Corrosion ☐ Obsolete ☐	
FUSE Breaker ☒ Glass/Screw ☐	Room for Expansion ☐	Cartridge ☐ Time Delay ☐	
GFCI Breaker ☐ AFCI Breaker ☐	Blown/Broken ☐ Over-Fused ☐		
CIRCUIT WIRE		Not Applicable	
Improper ☐ Aluminum ☐ Copper ☐	Copper Clad ☐ Other ☐		
Non - Metallic Sheathed ☐ Armoured Cable ☐	Knob & Tube ☐		
Double Tapping ☐ Spliced ☐	Corrosion ☐ Scorched ☐		
GROUNDING		Not Applicable	
Concealed ☐ Ground Rod ☐ Water Main ☐	Improper Connection/Installation ☐ Meter By-Pass/Jumper ☐		
BONDING	Water Pipe ☐ Gas Pipe ☐		
Improper Connection/Installation ☐ Corrosion ☐ Unsecured ☐			
AUXILIARY PANEL		Not Applicable	
Concealed ☐	Location	Non Standard Installation ☐	
Not Opened ☐ Unsecured ☐	DISCONNECT RATING 0 Amps	Corrosion ☐ Obsolete ☐	
PANEL RATING 0 Amps	Room for Expansion ☐	Have Electrician Evaluate ☐	
FUSE Breaker ☐ Glass/Screw ☐	Cartridge ☐ Time Delay ☐		
GFCI Breaker ☐ Blown/Broken ☐	Over-Fused ☐ Scorched ☐		

DISTRIBUTION PANEL125 Amp panel at back porch - photo # 75



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124 W. River Rd - Mackner House

PLUMBING COMPONENTS

LIMITATION	Finished Basement ☐	Private/Water Shut Off ☐	Private System ☐	Other ☐
PUBLIC SUPPLY	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
SHUT-OFF VALVE	Location			
	Not Tested ☐	Corrosion ☐	Leak ☐	
PRIVATE SUPPLY	Concealed ☐	Not Applicable		
SHUT-OFF VALVE	Location			
	Not Tested ☐	Corrosion ☐	Leak ☐	
WELL PUMP	Submersible ☐	Jet ☐	Other ☐	
	Short Cycle ☐	Corrosion ☐	Leak ☐	
	Advise Well Water Quality/Recovery Test ☐			
STORAGE TANK	No Air Valve ☐	Corrosion ☐	Leak ☐	
WATER PRESSURE	Low ☐	Typical ☐	High ☐	
WATER QUALITY	Discoloration ☐	Debris ☐	Odor ☐	
	Test Declined ☐	Advise Water Quality Test ☐		
HOSE BIBB	Not Checked ☐	Not Applicable		
Frost Free ☐	Anti-Siphon ☐	Shut Off Valve ☐		
Recalk ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
DISTRIBUTION PIPING	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
Dissimilar Metal ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
CROSS CONNECTION	Kitchen ☐	Laundry ☐	Hose Bibb ☐	
WASTE DRAINAGE	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
	Advise Septic Tank Checked/Pumped ☐			
FLOOR DRAIN	Mechanical/Faucet Primer ☐			
None ☐	Backed-Up ☐	No Water ☐	No Trap ☐	
SEWAGE PUMP	Not Checked ☐	Not Applicable		
VENT STACK/PIPING	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Undersized ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
MAIN CLEANOUT	Concealed ☐	Not Applicable		
Improper Plug ☐	Location			
HOT WATER TANK	Hybrid Heating ☐	Not Applicable		
Power-Vented ☐	Own ☐	Rent ☐	Est. Capacity	IG
Gas/Propane ☐	Oil ☐	Wood/Coal ☐	Electric	
Dirty/Rusty/Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
LIFE EXPECTANCY	Typical ☐	Middle/End ☐	Exceeded ☐	
FUEL SHUT-OFF	Concealed ☐	Location		
RELIEF VALVE	No Test Lever ☐	Corrosion ☐	Other ☐	
DISCHARGE TUBE	Undersized ☐	Discharge ☐	Missing ☐	
VENTING	Flue ☐	Sidewall ☐	Not Applicable	
Improper Rise ☐	Unsecured ☐	Corrosion ☐	Soot ☐	
BURN CHAMBER	Not Checked ☐	Needs Adjustment ☐		
SUMP PUMP	Not Checked ☐	Not Applicable		
Submersible ☐	Standpipe ☐	To Exterior Grade ☐		
Float Checked ☐	No/Improper Cover ☐	Permanent Connection ☐		
Corrosion ☐	To Septic/Sewer ☐	Suspect Installation ☐		

HOT WATER TANK
Rust and corrosion and evidence of prior leaking observed at galvanized pipe above water heater. Photo # 85 Unable to access data plate.



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LOCATION	Basement ☐	1st Floor ☐	2nd Floor ☐	3rd Floor ☐	Other ☐
WATER FLOW	Normal ☐	Suspect ☐	Low ☐		
FLOOR	Worn ☐ Carpet ☐	Crack/Stain ☐ Vinyl ☒	No Visible Damage Noted Wood/Lam. ☐	Ceramic ☐	
WALL	Patched ☐ Drywall/Plaster ☒	Crack/Stain ☐ Brk/Blk/Stone ☐	No Visible Damage Noted Wood/WP. ☐	Ceramic ☐	
CEILING	Patched ☐ Drywall/Plaster ☒	Crack/Stain ☐ Stip/Acoustic/WP. ☐	No Visible Damage Noted Wood ☐	Tile ☐	
WINDOW	Bind ☐ Single/Db. Hung ☒ Thermal ☒ Damaged ☐	Not Tested ☐ Cas./Awning ☐ Alum./Metal ☐ Mildew/Mold ☐	Operational Sliding/Fxd ☐ Vinyl ☒ Stain/Rot ☐	Bay/Bow ☐ Wd./Vnyl/Fx ☐ Repaint ☐	
DOOR	Bind ☐ Pocket ☐	Damaged ☐ Hinged ☒	Operational Wood ☒	Composite ☐	
LIGHTING	None ☐	Unsecured ☐	Operational		
RECEPTACLE	Damaged/No Cover ☐	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
EXHAUST FAN	Advise Installation ☐	Operational			
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted		
FAUCET	Sticks ☐	No Shut-Off ☐ Unsecured ☐	Corrosion ☐	Leak ☐	
TRAP/DRAIN	Improper Trap ☐	Unsecured ☐ Slow Drain ☐	Corrosion ☐	Leak ☐	
VANITY	Worn ☐ Laminate ☒ Scratch ☐	Unsecured ☐ Plywood ☐ Mildew/Stain ☐	No Visible Damage Noted Wood ☐ Missing/Loose Hardware ☐	Metal ☐	
COUNTER	Solid Surface ☐ RegROUT/RecAulk ☐	Unsecured ☐ Mrb./Granite ☐ Mildew/Stain ☐	No Visible Damage Noted Laminate ☒ Scratch ☐	Ceramic ☐ Worn ☐	
TOILET	Tank Loose ☐	No Shut-Off ☐ Unsecured ☐	Crack ☐	Leak ☐	
TUB / ENCLOSURE	Ceramic ☐ RegROUT/RecAulk ☐	Unsecured ☐ Cult./Marble ☐ Mildew/Stain ☐	No Visible Damage Noted Fiberglass ☐ Crack ☐	Plastic ☐ Worn ☐	
JETTED TUB	GFCI Protected ☐	Not Tested ☐ Motor Access ☐	Corrosion ☐	Leak ☐	
FAUCET/SHOWER HEAD	Sticks/Clogged ☐	Not Tested ☐ Unsecured ☐	Corrosion ☐	Leak ☐	
SHOWER ENCLOSURE	Ceramic ☐ RegROUT/RecAulk ☐	Unsecured ☐ Cult./Marble ☐ Mildew/Stain ☐	Not Applicable Fiberglass ☐ Scratch ☐	Plastic ☐ Worn ☐	
FAUCET/SHOWER HEAD	Sticks/Clogged ☐	Not Tested ☐ Unsecured ☐	Corrosion ☐	Leak ☐	
HEAT SOURCE	Air Register ☐	None ☒	Thermostat ☐ Convactor/Radiator ☐	Electric ☐ Radiant ☐	



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124 W River Rd - Mackner House

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KITCHEN

FLOOR	Worn ☐ Carpet ☐	Crack/Stain ☐ Vinyl ☒	No Visible Damage Noted	FLOOR
		Wood/Lam. ☐	Ceramic ☐	Room photo # 82
WALL	Patched ☐ Drywall/Plaster ☒	Crack/Stain ☐ Brk/Blk/Stone ☐	No Visible Damage Noted	
		Wallpaper ☐	Ceramic ☐	
CEILING	Patched ☐ Drywall/Plaster ☒	Crack/Stain ☐ Stip/Acoust/W ☐	No Visible Damage Noted	
		Wood ☐	Tile ☐	
WINDOW	Bind ☐ Single/DbL Hung ☒ Thermal ☒ Damaged ☐	Not Tested ☐ Cas./Awning ☐ Alum./Metal ☐ Mildew/Mold ☐	Operational ☐ Sliding ☒ Vinyl/V. Cld ☒ Stain/Rot ☐	Bay/Bow ☐ Wd./Vnly/Fx ☐ Repaint ☐
DOOR	Bind ☐ Pocket/BI-Fold ☐	Damaged ☐ Hinged ☐	Not Applicable	
		Wood ☐	Composite ☐	
PATIO DOOR	Bind ☐ Sliding ☐	Damaged ☐ Hinged ☐	Not Applicable	
		Wood ☐	Metal/Vinyl ☐	
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Operational	
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐	
SINK	Worn ☐ Single ☐	Chip/Scratch ☐ Double ☐	No Visible Damage Noted	
		Stainless ☐	Enamel/S.Sf ☐	
FAUCET	No Shut-Off Valve ☐		Not Applicable	
	Sticks ☐	Unsecured ☐	Corrosion ☐ Leak ☐	
TRAP/DRAIN		Unsecured ☐	Not Applicable	
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐ Leak ☐	
COUNTER		Unsecured ☐	No Visible Damage Noted	
	Ceramic ☐	Marble/Granite ☐	Laminate ☒ Solid Surf. ☐	
	RegROUT/RecAulk ☐	Mildew/Stain ☐	Scratch ☐ Worn ☐	
CABINET	Worn ☐ Laminate ☐	Unsecured ☐ Plywood ☐	No Visible Damage Noted	
	Miss/Loose Hdwr ☐	Mildew/Stain ☐	Wood ☒ Metal ☐	
		Scratch ☐	Other ☐	
RANGE HOOD	Cooktop Exhaust ☐		Operational	
	Corrosion ☐	No Exhaust ☐	No Light ☐ Noisy ☐	
EXHAUST VENT		Unsecured ☐	Ductless ☐ Concealed ☐	
	With Other Exhaust ☐	To Attic ☐	Improper ☐ To Exterior ☐	
FILTER	None ☐	Unsecured ☐	Damaged ☐ Greasy ☐	
MAJOR APPLIANCES (Built In)				
DISHWASHER			Not Applicable	
GARBAGE DISPOSAL			Not Applicable	
STOVE/OVEN/RANGE			Not Applicable	
REFRIGERATOR			Not Applicable	
MICROWAVE			Not Applicable	
	Tested On/Off ☐	Did Not Check All Functions/Full Cycle ☐		
HEAT SOURCE		None ☒	Thermost ☐ Electric ☐	
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	



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124 W River Rd - Mackner house

BNSF Levee Remediation Properties, Skykomish

LIVING ROOM

FLOOR	Worn ☒	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☒	Bay/Bow ☐
	Thermal ☒	Alum./Metal ☐	Vinyl ☒	Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Operational	
	Sliding ☐	Hinged ☒	Wood ☒	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☒		Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR

Room photo # 83 Fir floors covered with paint, glue, carpet tacks.

HEAT SOURCE

Gas (pellet?) stove (heat source for whole house) has been removed. Gas stub and vent for duct in photo # 93.



Pillar To Post

124 W River Rd - Mackner house

DINING ROOM

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☒	Bay/Bow ☐
	Thermal ☒	Alum./Metal ☐	Vinyl ☒	☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Operational	
	Sliding ☐	Hinged ☒	Wood ☒	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☒		Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR

Photos #84, 86 and 87 Fir floors covered with paint, glue, carpet tacks and plywood patch.



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FLOOR	Worn ☒	Stain ☒	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stn/ ☐	Wood/WP. ☐ Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stp/Acous/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☒ Bay/Bow ☐
	Ther/Fix/Sng ☒	Alum./Metal ☐	Vinyl ☒ Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational
	Pocket/BI-Fold ☐	Hinged ☒	Wood ☒ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Light ☐	Hinged ☐	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Operational
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☒	Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOOR
SW bedroom floor with paint, glue stains
and carpet tacks - photo # 88

SE bedroom floor with paint, glue, stains,
and carpet tacks - photo # 91

CEILING FANSW bedroom: Photo # 89SE bedroom: Photo # 90

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable
	Carpet ☐	Vinyl ☐ Wood/Lam ☐	Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Brk/Blk/Stn/ ☐	Wood/WP. ☐ Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable
	Drywall/Plaster ☐	Stp/Acous/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cld ☐ Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable
	Pocket/BI-Fold ☐	Hinged ☐	Wood ☐ Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable
	Light ☐	Hinged ☐	Bi-Fold ☐ Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Not Applicable
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐



Pillar To Post

6/12/2006 6:24:04 PM

BNSF Levee Remediation Properties, Skykomish

LIMITATION: Restricted/No Access ☐ Debris/Obstruction ☐ Snow/Ice Cover ☐ Vegetation/Tree/Shrub ☐
CONDITIONS: Clear/Sunny ☒ Cloudy/Overcast ☐ Rain/Snow ☐ Approx. Temperature 75
 Dry Ground ☒ Approx. Hydrant Distance

BUILDING Approx. Years Old Condo ☐ Rural ☐
 Bungalow ☒ Bi-Level ☐ 2 Story ☐ 3 Story ☐
 Semi-Detached ☐ Plex Row/Town ☐ Other ☐

BUILDINGHouse photo # 110**FRONT PORCH**Porch has aged. Repair any porch decking and railing in poor condition.

LANDSCAPING Slope to House ☐ Not Applicable
 Flower Bed ☐ Hedge/Shrub ☐ Tree/Vine ☐ Ravine ☐
 Earth to Wood ☐ Site Erosion ☐ No Swale ☐ Other ☐

DRIVEWAY Slopes to House ☐ Not Applicable
 Paving Stone ☐ Gravel ☐ Concrete ☐ Asphalt ☐

WALKWAY/PATH Slopes to House ☐ Not Applicable
 Paving Stone ☐ Patio Block ☐ Concrete ☐ Asphalt ☐

PORCH Unsecured ☐ Visible Damage Noted
 Metal ☐ Wood ☒ Concrete ☐ Brick/Block ☐
 Crack/Spalling ☐ Corrosion ☐ Rot ☐ Repaint ☐

LIGHTING None ☐ Unsecured ☐ Not Applicable

RECEPTACLE Damaged/No Cover ☐ Not Applicable

RAILING Unsecured ☐ No Visible Damage Noted
 Metal ☐ Wood ☒ Incomplete ☐ None ☐

DECK/ PATIO Unsecured ☐ No Visible Damage Noted
 Composite ☒ Brick/Block ☐ Concrete ☐ Metal ☐
 Slope to House ☐ Paving Stone ☐ Patio Block ☐ Stone ☐
 Crack/Spalling ☐ Deterioration ☐ Mold/Mildew ☐ Rot ☐

RAILING Unsecured ☐ Not Applicable
 Metal ☐ Wood ☐ Incomplete ☐ None ☐

RETAINING WALL: Not Stable ☐ Not Applicable
 No Weep Holes ☐ Wood ☐ Concrete ☐ Stone ☐
 Crack/Spalling ☐ Deterioration ☐ Rot ☐ Leans ☐



For the purpose of this report your house faces:

FRONT



6/12/2006 7:25:14 PM

BNSF Levee Remediation Properties, Skykomish

LIMITATION	Clearance ☐	Seasonal Storm Window ☐	Debris/Obstruction ☐	Shrub/Tree/Hedge/Vines/Ivy ☐
	Snow/Ice Cover ☐	Restricted/No Access ☐	Parged ☐	Other ☐
FOUNDATION WALL	Not Exposed ☐	Not Applicable		
	Poured Concrete ☐	Block ☐	Brick ☐	Stone ☐
	Exterior Rigid Insulation ☐	PWF/Wood ☐	Piling/Pier ☒	
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Frost Heave ☐
WALL SURFACE	No Ground Clearance ☐	No Visible Damage		
	Aluminum ☐	Composite ☐	Brick/Block ☐	Stone ☐
	Stucco ☐	Vinyl Siding ☐	Wood Siding ☒	Steel/Shgl ☐
	Split/Loose ☐	Repoint ☐	Repaint ☐	Recaulk ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Blister/Peel ☐
WINDOWS	Inspected with Binoculars ☐	No Visible Damage Noted		
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Poor Trim ☐
WINDOW WELL	Improper Drainage ☐	Not Applicable		
DOORS	Bind ☐	Damaged ☐	Operational	
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Split/Dent ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Not Applicable		
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
BASEMENT WALKOUT	Covered ☐	Not Applicable		
	Poor Condition ☐	No Railing ☐	No Drain ☐	Leak ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Frost Heave ☐	Reparge ☐



SHED

GARAGE / CARPORT

TYPE	Attached ☐	Built-In ☐	Detached ☐	Single ☐	Double ☐	Insulated/Heated ☐	Attic Access ☐
DOOR	Bind ☐	Damaged ☐	Operational		DOOR		
	Automatic ☐	Sectional ☐	Wood ☒	Metal ☐	<u>Shed outside photo #117, Inside photo #118</u>		
	Adjust Auto Stop ☐	No Safety Stop ☐	Stain/Rot ☐	Corrosion ☐	WALL		
FLOOR	Crack ☐	Settlement ☐	No Visible Damage Noted		<u>Frass from wood destroying insects at back wall. Photo #119</u>		
	Asphalt ☐	Concrete ☐	Gravel ☐	Stain/Rot ☐	CEILING		
WALL	No Fire Barrier ☐	No Visible Damage Noted		<u>Underneath awning - photo # 120.</u>			
	Drywall/Plaster ☐	Brk/Blk/Stone ☐	Wood ☒	Stain/Rot ☐			
WINDOW	Bind ☐	Damaged ☐	Not Applicable				
CEILING	No Fire Barrier ☐	No Visible Damage Noted					
	Drywall/Plaster ☐	Crack ☐	Wood ☒	Stain/Rot ☐			
LIGHTING	None ☐	Unsecured ☐	Not Applicable				
RECEPTACLE	Damaged/No Cover ☐	Not Applicable					
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐			
CIRCUIT WIRE	Concealed ☐	Unsecured ☐	Improper				
ACCESS DOOR	To ☐	Not Applicable					
	Auto Door Close ☐	Metal Clad ☐	Wood ☐	Composite ☐			
	Gas Proof ☐	Damaged ☐	Stain/Rot ☐	Corrosion ☐			



Pillar To Post 6/12/2006 6:35:16 PM

BNSF Levee Remediation Properties, Skykomish

INSPECTED BY:		Binocular ☐	Roof Edge ☒	Walk On ☐	No Access ☐
LIMITATION		Deck/Patio ☐	Gravel/Flat ☐	Height ☐	Steep Slope ☐
		Solar Panel ☐	Fragile ☐	Other ☐	Rain/Snow/Ice Cover ☐

MAIN ROOF	Flat ☐	Gable ☒	Valley ☒	Hip ☐	Shed ☐	Other ☐	Est. Age	Pitch 8/12
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GUTTER/DOWNSPOUT		Unsecured ☐	No Visible Damage Noted		GUTTER/DOWNSPOUT	
TYPE	Aluminum ☐	Galvanized ☐	Copper ☐	Plastic ☐	No gutters	
	Incomplete ☐	Dent/Split ☐	Corrosion ☐	Leak ☐	COVERING	
DRAINAGE	Above Ground ☐	Below Ground ☐	Spill/Roof ☐	Clean ☐	Photos # 112 and 113	
	Extend Leader ☐	Redirect Leader ☐			CHIMNEY/VENT	

FASCIA/SOFFIT		Not Vented ☐	No Visible Damage Noted		CHIMNEY/VENT	
	Aluminum ☐	Wood ☒	Vinyl ☐	Other ☐	Vent flue for water heater should extend	
	Loose ☐	Mildew/Mold ☐	Stain/Rot ☐	Corrosion ☐	above roof and not under soffit to reduce	
					chance of fire and condensation. Photo #	

COVERING # of Layers 1		No Visible Damage Noted		114	
Asphalt Shingle ☐	Cond/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐		
Fiberglass Shingle ☐	Tar/Gravel ☐	Metal ☒	Other ☐		
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐		
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐		
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐			
LIFE EXPECTANCY	Typical ☒	Middle/End ☐	Exceeded ☐		

ACCESSORY		Unsecured ☐	No Visible Damage Noted		
Air/Exhaust Vent ☐	Vent Stack ☒	Turbine ☐	Elec. Mast ☒		
Solar Panel ☐	Skylight ☐	Antenna ☐	Dish ☐		

FLASHING		Not Checked/Concealed ☐	No Visible Damage Noted		
Chimney ☒	Dormer ☐	Drip Edge ☒	Flat Roof ☐		
Skylight ☐	Roof to Wall ☐	Stack ☐	Valley ☐		
Roll Roofing ☐	Alum./Galv. ☒	Copper/Lead ☐	Rubber ☐		
Gap/Loose/Crack ☐	Deterioration ☐	Corrosion ☐	Tarred ☐		
Reseal/Recaulk ☐	Improper ☐	Replace When Re-Roofing ☐			

CHIMNEY / VENT		Leaning ☐	Visible Damage Noted		
Fireplace ☒	Furnace ☐	Gas Insert ☐	Other ☐		
Brk/Blk/Stone ☐	Metal ☒	Wood ☐	Stucco ☐		
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐		
Abandoned ☐	No Wind Cap ☐	Metal Liner Required ☐			

CHIMNEY CAP		None ☐	Not Applicable		
Concrete ☐	Masonry ☐	Metal ☒	Other ☐		
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐		

VISIBLE FLUE LINER		None ☐	Not Applicable		
Brick/Block ☐	Clay/Concrete ☐	Metal ☒	Metal Insert ☐		
Rain Cap ☐	Deterioration ☐	Corrosion ☐	Loose ☐		
Crack/Spalling ☐	Improper ☐	Advise Cleaning/Sweeping ☐			

SECONDARY ROOF	Flat ☐	Gable ☐	Hip/Valley ☐	Shed ☐	Other ☐	Est. Age	Pitch
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COVERING # of Layers 1		Not Applicable	
Asphalt Shingle ☐	Cond/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
Fiberglass Shingle ☐	Tar/Gravel ☐	Metal ☐	
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	
LIFE EXPECTANCY	Typical ☐	Middle/End ☐	Exceeded ☐

LIMITATION:		☐ No Access	☐ Sealed	☐ Stored Items	☐ Looked In	☐ Entered	☐ Hatch	☐ Pull Down	☐ Insulated
STRUCTURE		☐ Truss	☐ Rafter	Not Applicable					
SHEATHING		☐ Warped	☐ Stain/Rot	☐ Sag/Loose	☐ Split	Not Applicable			
INSULATION		Estimated Depth		Not Applicable					
☐ Radiant Barrier	☐ Concealed	☐ Finished	☐ None	Not Applicable					
☐ Vapor Barrier	☐ Fiberglass	☐ Mineral	☐ Cellulose	☐ Other	Required				
☐ Wood Shavings	☐ Rigid Plastic	☐ Blown/Loose	☐ Sprayed	Required					
VENTILATION		☐ Softie	☐ Gable End	☐ Turbine	Not Applicable				
☐ Baffles	☐ Roof/Ridge	☐ Blocked	☐ Mechanical	Required					
EXHAUST DUCT		☐ Not Insulated	☐ Into Attic	☐ Plastic/Flex	Not Applicable				
ELECTRICAL		☐ Concealed	☐ Knob & Tube	☐ Open Splice	Frayed				
STRUCTURE		☐ Abandoned	Not Applicable						

Attic was not accessible. Hatch would not open since it is covered above. Photo # 130

STRUCTURE

120 6th St. N - Moore House

ELECTRICAL SERVICE / PANEL

DISTRIBUTION PANEL

Photo # 111

SERVICE ENTRANCE	☐ Underground	☐ Overhead	☐ No Conduit	☐ 120/240 Volt	☐ 120-Volt	☐ Entrance Cable	☐ Concealed	☐ Aluminum	☐ Copper	☐ Switch/Cartridge Fuse	☐ Breaker	☐ Have Electrician Evaluate	
MAIN DISCONNECT	☐ Not Opened	Not Applicable											
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
LOCATION	☐ Obstructed	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
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Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								
DISCONNECT RATING	☐ 0 Amps	☐ Have Electrician Evaluate											
PANEL RATING	☐ 0 Amps	☐ Glass/Screw	☐ Cartridge	☐ Time Delay	☐ Over-Fused								
GFCI Breaker	☐ AFCI Breaker	☐ Blown/Broken	☐ Over-Fused										
CIRCUIT WIRE	☐ Improper	Not Applicable											
Non - Metallic Sheathed	☐ Armoured Cable	☐ Knob & Tube	☐ Other										
Aluminum	☐ Copper Clad	☐ Copper											
Double Tapping	☐ Spliced	☐ Corrosion	☐ Scorched										
GROUNDING	☐ Concealed	☐ Ground Rod	☐ Water Main										
Improper Connection/Installation	☐ Concealed	☐ Meter By-Pass/Jumper											
BONDING	☐ Concealed	☐ Water Pipe	☐ Gas Pipe										
Improper Connection/Installation	☐ Concealed	☐ Corrosion	☐ Unsecured										
AUXILIARY PANEL	☐ Concealed	Not Applicable											
LOCATION	☐ Not Opened	☐ Unsecured	☐ Corrosion	☐ Obsolete	☐ Non Standard Installation								



LIMITATION	Finished Basement ☐	Private/Water Shut Off ☐	Private System ☐	Other ☐
PUBLIC SUPPLY	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	DISTRIBUTION PIPING
SHUT-OFF VALVE	Location ☐	<u>Plumbing pipes next to bathroom. Photo # 121</u>		
	Not Tested ☐	Corrosion ☐	Leak ☐	HOT WATER TANK
PRIVATE SUPPLY	Concealed ☐	Not Applicable		
SHUT-OFF VALVE	Location ☐	<u>1998 40 gallon gas water heater.</u>		
	Not Tested ☐	Corrosion ☐	Leak ☐	
WELL PUMP	Submersible ☐	Jet ☐	Other ☐	
	Short Cycle ☐	Corrosion ☐	Leak ☐	
	Advise Well Water Quality/Recovery Test ☐			
STORAGE TANK	No Air Valve ☐	Corrosion ☐	Leak ☐	
WATER PRESSURE	Low ☐	Typical ☐	High ☐	
WATER QUALITY	Discoloration ☐	Debris ☐	Odor ☐	
	Test Declined ☐	Advise Water Quality Test ☐		
HOSE BIBB	Not Checked ☐	Not Applicable		
Frost Free ☐	Anti-Siphon ☐	Shut Off Valve ☐		
Recaulk ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
DISTRIBUTION PIPING	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
Dissimilar Metal ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
CROSS CONNECTION	Kitchen ☐	Laundry ☐	Hose Bibb ☐	
WASTE DRAINAGE	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
	Advise Septic Tank Checked/Pumped ☐			
FLOOR DRAIN	Mechanical/Faucet Primer ☐			
None ☐	Backed-Up ☐	No Water ☐	No Trap ☐	
SEWAGE PUMP	Not Checked ☐	Not Applicable		
VENT STACK/PIPING	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Undersized ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
MAIN CLEANOUT	Concealed ☐	Not Applicable		
Improper Plug ☐	Location ☐			
HOT WATER TANK	Hybrid Heating ☐	Not Applicable		
Power-Vented ☐	Own ☐	Rent ☐	Est. Capacity ☐	IG ☐
Gas/Propane ☐	Oil ☐	Wood/Coal ☐	Electric ☐	
Dirty/Rusty/Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
LIFE EXPECTANCY	Typical ☐	Middle/End ☐	Exceeded ☐	
FUEL SHUT-OFF	Concealed ☐	Location ☐		
RELIEF VALVE	No Test Lever ☐	Corrosion ☐	Other ☐	
DISCHARGE TUBE	Undersized ☐	Discharge ☐	Missing ☐	
VENTING	Flue ☐	Sidewall ☐	Not Applicable	
Improper Rise ☐	Unsecured ☐	Corrosion ☐	Soot ☐	
BURN CHAMBER	Not Checked ☐	Needs Adjustment ☐		
SUMP PUMP	Not Checked ☐	Not Applicable		
Submersible ☐	Standpipe ☐	To Exterior Grade ☐		
Float Checked ☐	No/Improper Cover ☐	Permanent Connection ☐		
Corrosion ☐	To Septic/Sewer ☐	Suspect Installation ☐		



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120 6th St. N - Moore House

BNSF Levee Remediation Properties, Skykomish

BATHROOM

LOCATION		Basement ☐	1st Floor ☐	2nd Floor ☐	3rd Floor ☐	Other ☐
WATER FLOW		Normal ☐	Suspect ☐	Low ☐	FLOOR	
FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted		<u>Room photo # 122.</u>	
	Carpet ☐	Vinyl ☒	Wood/Lam. ☐	Ceramic ☐	EXHAUST FAN	
					<u>Exhaust Fan is noisy.</u>	
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted		FAUCET/SHOWER HEAD	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☒	Ceramic ☐	<u>Rubber piece is attached to faucet.</u>	
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable			
	Drywall/Plaster ☒	Stip/Acoustic/WP. ☐	Wood ☐	Tile ☐		
WINDOW	Bind ☐	Not Tested ☐	Operational			
	Single/Db. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐		
	Thermal ☒	Alum./Metal ☐	Vinyl ☒	Wd./Vnyl/Fx ☐		
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐		
DOOR	Bind ☐	Damaged ☐	Operational			
	Pocket ☐	Hinged ☐	Wood ☒	Composite ☐		
LIGHTING	None ☐	Unsecured ☐	Operational			
RECEPTACLE	Damaged/No Cover ☐	Operational				
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐		
EXHAUST FAN	Advise Installation ☐	Operational				
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted			
FAUCET		No Shut-Off ☐	Not Applicable			
	Sticks ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
TRAP/DRAIN		Unsecured ☐	Not Applicable			
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐	Leak ☐		
VANITY	Worn ☐	Unsecured ☐	Not Applicable			
	Laminate ☐	Plywood ☐	Wood ☐	Metal ☐		
	Scratch ☐	Mildew/Stain ☐	Missing/Loose Hardware ☐			
COUNTER		Unsecured ☐	Not Applicable			
	Solid Surface ☐	Mtbl./Granite ☐	Laminate ☐	Ceramic ☐		
	RegROUT/Recaulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐		
TOILET		No Shut-Off ☐	Not Applicable			
	Tank Loose ☐	Unsecured ☐	Crack ☐	Leak ☐		
TUB / ENCLOSURE		Unsecured ☐	No Visible Damage Noted			
	Ceramic ☐	Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
	RegROUT/Recaulk ☐	Mildew/Stain ☐	Crack ☐	Worn ☐		
JETTED TUB		Not Tested ☐	Not Applicable			
	GFCI Protected ☐	Motor Access ☐	Corrosion ☐	Leak ☐		
FAUCET/SHOWER HEAD		Not Tested ☐	Not Applicable			
	Sticks/Clogged ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
SHOWER ENCLOSURE		Unsecured ☐	Not Applicable			
	Ceramic ☐	Cult./Marble ☐	Fiberglass ☐	Plastic ☐		
	RegROUT/Recaulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐		
FAUCET/SHOWER HEAD		Not Tested ☐	Not Applicable			
	Sticks/Clogged ☐	Unsecured ☐	Corrosion ☐	Leak ☐		
HEAT SOURCE		None ☐	Thermostat ☐	Electric ☐		
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐			



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FLOOR	Worn ☐ Carpet ☐	Crack/Stain ☐ Vinyl ☐	No Visible Damage Noted Wood ☒ Ceramic ☐	
WALL	Patched ☐ Drywall/Plaster ☒	Crack/Stain ☐ Brk/Blk/Stone ☐	No Visible Damage Noted Wallpaper ☐ Ceramic ☐	
CEILING	Patched ☐ Drywall/Plaster ☐	Crack/Stain ☐ Stip/Acoustic ☐	No Visible Damage Noted Wood ☒ Tile ☐	
WINDOW	Bind ☐ Single/Dbl. Hung ☒ Thermal ☐ Damaged ☐	Not Tested ☐ Cas./Awning ☐ Alum./Metal ☐ Mildew/Mold ☐	Not Applicable Sliding/Fxd ☐ Bay/Bow ☐ Vinyl/V. Cld ☒ Wood ☒ Stain/Rot ☐ Repaint ☐	
DOOR	Bind ☐ Pocket/Bi-Fold ☐	Damaged ☐ Hinged ☐	Not Applicable Wood ☐ Composite ☐	
PATIO DOOR	Bind ☐ Sliding ☐	Damaged ☐ Hinged ☐	Not Applicable Wood ☐ Metal/Vinyl ☐	
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐ Install GFCI ☐	Reverse Polarity ☐	Operational No Ground ☐ Open Ground ☐	
SINK	Worn ☐ Single ☐	Chip/Scratch ☐ Double ☒	No Visible Damage Noted Stainless ☒ Enamel/VS. Sf ☐	
FAUCET	No Shut-Off Valve ☐ Sticks ☐	Unsecured ☐	Not Applicable Corrosion ☐ Leak ☐	
TRAP/DRAIN	Unsecured ☐ Improper Trap ☐	Unsecured ☐ Slow Drain ☐	Not Applicable Corrosion ☐ Leak ☐	
COUNTER	Unsecured ☐ Ceramic ☐ RegROUT/RecAulk ☐	Marble/Granite ☐ Mildew/Stain ☐	No Visible Damage Noted Laminate ☒ Solid Surf. ☐ Scratch ☐ Worn ☐	
CABINET	Worn ☐ Laminate ☐ Miss/Loose Hdwr ☐	Unsecured ☐ Plywood ☐ Mildew/Stain ☐	No Visible Damage Noted Wood ☒ Metal ☐ Scratch ☐ Other ☐	
RANGE HOOD	Cooktop Exhaust ☐ Corrosion ☐	No Exhaust ☐	Operational No Light ☐ Noisy ☐	
EXHAUST VENT	Unsecured ☐ With Other Exhaust ☐	To Attic ☐	Operational Ductless ☐ Concealed ☐ Improper ☐ To Exterior ☐	
FILTER	None ☐	Unsecured ☐	Operational Damaged ☐ Greasy ☐	

MAJOR APPLIANCES (Built In)

DISHWASHER	Not Applicable
GARBAGE DISPOSAL	Not Applicable
STOVE/OVEN/RANGE	Not Applicable
REFRIGERATOR	Not Applicable
MICROWAVE	Not Applicable
Tested On/Off ☐	Did Not Check All Functions/Full Cycle ☐

HEAT SOURCE	None ☒ Thermost ☐ Electric ☐
Air Register ☐	Convactor/Radiator ☐ Radiant ☐

FLOOR
Room photo # 125, 126 and 123 (laundry area)



120 6th St. N - Moore House

LIVING ROOM

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FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☒ Wallpaper ☒
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☒ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Operational
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cld ☐ Wood ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Operational
	Sliding ☐	Hinged ☒	Wood ☒ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Operational
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE		None ☐	Thermostat ☒ Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOOR

Room photo # 127

Light stains on living and dining room
floors caused by bleaching from sun rays.
Wood stove hearth with gas hook up.

WINDOW

Windows throughout house are sealed shut
except for bathroom and west-southwest
window in living room.



120 6th St. N - Moore House

DINING ROOM

FLOOR	Worn ☐	Stain ☒	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☒ Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☒ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cld ☐ Repaint ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐ French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Operational
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE		None ☐	Thermostat ☒ Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOOR

Room photo # 128

HEAT SOURCE

Electric Wall heater # 129



120 6th St. N - Moore House

BEDROOM

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FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stn ☐	Wood ☒	Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall ☒	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Thermal ☐	Alum./Metal ☐	Vinyl ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Light ☐	Hinged ☐	Bi-Fold ☐	Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Operational	
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☒	Thermostat ☐	Electric	
	Air Register ☐	Convactor/Radiator ☐	Radiant	



Pillar To Post

BEDROOM

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable	
	Carpet ☐	Vinyl ☐	Wood/Lam ☐	Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Brk/Blk/Stn ☐	Wood/WP. ☐	Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cld ☐	Wd./Vinyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Light ☐	Hinged ☐	Bi-Fold ☐	Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Not Applicable	
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric	
	Air Register ☐	Convactor/Radiator ☐	Radiant	



105 6th St. N - Teacher Cottage

PROPERTY AND SITE

6/12/2006 7:22:42 PM

BNSF Levee Remediation Properties, Skykomish

LIMITATION: Restricted/No Access ☐ Debris/Obstruction ☐ Snow/Ice Cover ☐ Vegetation/Tree/Shrub ☐
CONDITIONS: Clear/Sunny ☒ Cloudy/Overcast ☐ Rain/Snow ☐ Approx. Temperature 75
Dry Ground ☒ Approx. Hydrant Distance

BUILDING Approx. Years Old Condo ☐ Rural ☐
Bungalow/Ranch ☐ Bi-Level ☐ 2 Story ☒ 3 Story ☐
Semi-Detached ☐ Plex Row/Town ☐ Other ☐

BUILDING

House photo #131

LANDSCAPING Slope to House ☐ Not Applicable
Flower Bed ☐ Hedge/Shrub ☐ Tree/Vine ☐ Ravine ☐
Earth to Wood ☐ Site Erosion ☐ No Swale ☐ Other ☐

OTHER

Back enclosed porch area: Boards and paint are in poor condition. Door knobs are loose at both access doors. Room furnace has been uninstalled and is being stored in room. Photo # 141

DRIVEWAY Slopes to House ☐ Not Applicable
Paving Stone ☐ Gravel ☐ Concrete ☐ Asphalt ☐

WALKWAY/PATH Slopes to House ☐ Not Applicable
Paving Stone ☐ Patio Block ☐ Concrete ☐ Asphalt ☐

PORCH Unsecured ☐ No Visible Damage Noted
Metal ☐ Wood ☒ Concrete ☐ Brick/Block ☐
Crack/Spalling ☐ Corrosion ☐ Rot ☐ Repaint ☐

LIGHTING None ☐ Unsecured ☐ Not Applicable

RECEPTACLE Damaged/No Cover ☐ Not Applicable

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

DECK/ PATIO Unsecured ☐ Not Applicable
Composite/Wood ☐ Brick/Block ☐ Concrete ☐ Metal ☐
Slope to House ☐ Paving Stone ☐ Patio Block ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Mold/Mildew ☐ Rot ☐

RAILING Unsecured ☐ Not Applicable
Metal ☐ Wood ☐ Incomplete ☐ None ☐

RETAINING WALL Not Stable ☐ Not Applicable
No Weep Holes ☐ Wood ☐ Concrete ☐ Stone ☐
Crack/Spalling ☐ Deterioration ☐ Rot ☐ Leans ☐



For the purpose of this report your house faces:

FRONT



105 6th St. N - Teacher Cottage

EXTERIOR

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BNSF Levee Remediation Properties, Skykomish

LIMITATION	Clearance ☐	Seasonal Storm Window ☐	Debris/Obstruction ☐	Shrub/Tree/Hedge/Vines/Ivy ☐
	Snow/Ice Cover ☐	Restricted/No Access ☐	Parged ☐	Other ☐
FOUNDATION WALL	Not Exposed ☐	Not Applicable		
	Poured Concrete ☐	Block ☐	Brick ☐	Stone ☐
	Exterior Rigid Insulation ☐	PWF/Wood ☐	Piling/Pier ☐	
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Frost Heave ☐
WALL SURFACE	No Ground Clearance ☐	No Visible Damage		
	Aluminum ☐	Composite ☐	Brick/Block ☐	Stone ☐
	Stucco ☐	Vinyl Siding ☐	Wood Siding ☒	Steel/Shgl ☐
	Split/Loose ☐	Repoint ☐	Repaint ☐	Recaulk ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Stain/Rot ☐	Blister/Peel ☒
WINDOWS	Inspected with Binoculars ☐	No Visible Damage Noted		
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Poor Trim ☐
WINDOW WELL	Improper Drainage ☐	Not Applicable		
DOORS	Bind ☐	Damaged ☐	Operational	
	Storm ☐	Unsecured ☐	Repaint ☐	Recaulk ☐
	Weather-strip ☐	Mildew/Mold ☐	Stain/Rot ☐	Split/Dent ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
RECEPTACLE	Damaged/No Cover ☐	Not Applicable		
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
BASEMENT WALKOUT	Covered ☐	Not Applicable		
	Poor Condition ☐	No Railing ☐	No Drain ☐	Leak ☐
	Crack/Spalling ☐	Mildew/Mold ☐	Frost Heave ☐	Reparge ☐

WALL SURFACE

Prepare, caulk and paint siding to help prolong life of wood. Fill gaps. Photo's # 132 & 133. Open, exposed wall studs are visible inside porch area behind cut-out pictured.

Photo from NE corner # 136

WINDOWS

Old double-hung windows with storm windows. Several windows do not open. They are sealed/painted shut.



GARAGE / CARPORT

TYPE	Attached ☐	Built-In ☐	Detached ☐	Single ☐	Double ☐	Insulated/Heated ☐	Attic Access ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable				
	Automatic ☐	Sectional ☐	Wood ☐	Metal ☐			
	Adjust Auto Stop ☐	No Safety Stop ☐	Stain/Rot ☐	Corrosion ☐			
FLOOR	Crack ☐	Settlement ☐	Not Applicable				
	Asphalt ☐	Concrete ☐	Gravel ☐	Stain/Rot ☐			
WALL	No Fire Barrier ☐	Not Applicable					
	Drywall/Plaster ☐	Brk/Blk/Stone ☐	Wood ☐	Stain/Rot ☐			
WINDOW	Bind ☐	Damaged ☐	Not Applicable				
CEILING	No Fire Barrier ☐	Not Applicable					
	Drywall/Plaster ☐	Crack ☐	Wood ☐	Stain/Rot ☐			
LIGHTING	None ☐	Unsecured ☐	Not Applicable				
RECEPTACLE	Damaged/No Cover ☐	Not Applicable					
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐			
CIRCUIT WIRE	Concealed ☐	Unsecured ☐	Improper ☐				
ACCESS DOOR	To	Not Applicable					
	Auto Door Close ☐	Metal Clad ☐	Wood ☐	Composite ☐			
	Gas Proof ☐	Damaged ☐	Stain/Rot ☐	Corrosion ☐			



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105 6th St. N - Teacher Cottage

BNSF Levee Remediation Properties, Skykomish

ROOF STRUCTURE

INSPECTED BY:		Binocular ☐	Roof Edge ☒	Walk On ☐	No Access ☐
LIMITATION		Deck/Patio ☐	Gravel/Flat ☐	Height ☐	Steep Slope ☐
		Solar Panel ☐	Fragile ☐	Other ☐	Rain/Snow/Ice Cover ☐

MAIN ROOF	Flat ☐	Gable ☐	Valley ☐	Hip ☐	Shed ☐	Other ☐	Est. Age	Pitch 6/12
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GUTTER/DOWNSPOUT		Unsecured ☐	Not Applicable		GUTTER/DOWNSPOUT
TYPE	Aluminum ☐	Galvanized ☐	Copper ☐	Plastic ☐	No gutters.
	Incomplete ☐	Dent/Split ☐	Corrosion ☐	Leak ☐	COVERING
DRAINAGE	Above Ground ☐	Below Ground ☐	Spill/Roof ☐	Clean ☐	Photo from NW # 134 and NE #137
	Extend Leader ☐	Redirect Leader ☐			

FASCIA/SOFFIT		Not Vented ☐	Not Applicable		CHIMNEY/VENT
	Aluminum ☐	Wood ☒	Vinyl ☐	Other ☐	Some deterioration observed on brick faces.
	Loose ☐	Mildew/Mold ☐	Stain/Rot ☐	Corrosion ☐	Repointing is recommended.

COVERING # of Layers 1		Not Applicable	
Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☒	Other ☐
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	

LIFE EXPECTANCY		Typical ☒	Middle/End ☐	Exceeded ☐
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ACCESSORY		Unsecured ☐	No Visible Damage Noted	
Air/Exhaust Vent ☐	Vent Stack ☒	Turbine ☐	Elec. Mast ☒	
Solar Panel ☐	Skylight ☐	Antenna ☐	Dish ☒	

FLASHING		Not Checked/Concealed ☐	Not Applicable	
Chimney ☒	Dormer ☐	Drip Edge ☐	Flat Roof ☐	
Skylight ☐	Roof to Wall ☐	Stack ☒	Valley ☐	
Roll Roofing ☐	Alum./Galv. ☒	Copper/Lead ☐	Rubber ☐	
Gap/Loose/Crack ☐	Deterioration ☐	Corrosion ☐	Tarred ☐	
Reseal/Recaulk ☐	Improper ☐	Replace When Re-Roofing ☐		

CHIMNEY / VENT		Leaning ☐	No Visible Damage Noted	
Fireplace ☒	Furnace ☐	Gas Insert ☐	Other ☐	
Brick ☒	Metal ☐	Wood ☐	Stucco ☐	
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐	
Abandoned ☐	No Wind Cap ☐	Metal Liner Required ☐		

CHIMNEY CAP		None ☐	No Visible Damage Noted	
Concrete ☐	Masonry ☐	Metal ☒	Other ☐	
Crack/Spalling ☐	Deterioration ☐	Corrosion ☐	Loose ☐	

VISIBLE FLUE LINER		None ☐	Not Applicable	
Brick/Block ☐	Clay/Concrete ☐	Metal ☐	Metal Insert ☐	
Rain Cap ☐	Deterioration ☐	Corrosion ☐	Loose ☐	
Crack/Spalling ☐	Improper ☐	Advise Cleaning/Sweeping ☐		

SECONDARY ROOF	Flat ☐	Gable ☐	Hip/Valley ☐	Shed ☐	Other ☐	Est. Age	Pitch
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COVERING # of Layers 1		Not Applicable	
Asphalt Shingle ☐	Conc/Clay Tile ☐	Wd. Shingle ☐	Wd. Shake ☐
Fibreglass Shingle ☐	Tar/Gravel ☐	Metal ☐	
Nail Pop/Exposed ☐	Loose/Missing ☐	Broken ☐	Crack ☐
Patched ☐	Mildew/Mold ☐	Stain/Rot ☐	Worn ☐
Curl/Claw ☐	Fungus/Moss ☐	Improper Installation ☐	

LIFE EXPECTANCY		Typical ☐	Middle/End ☐	Exceeded ☐
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105 6th St. N - Teacher Cottage

ATTIC

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BNSF Levee Remediation Properties, Skykomish

LIMITATION: No Access ☐ Sealed ☐ Stored Items ☐ Looked In ☒ Entered ☐ Hatch ☒ Pull Down ☐ Insulated ☒			
STRUCTURE		No Visible Damage Noted	
Truss ☐ Rafter ☒	Warped ☐ Stain/Rot ☐	Sag/Loose ☐ Split ☐	
SHEATHING		No Visible Damage Noted	
Composite ☐ Thermal Board ☐	Condensation ☐	Plywood ☐ Board ☒	
R Felt/R Paper ☐ Mildew/Mold ☐		Sag/Loose ☐ Stain/Rot ☐	
INSULATION		No Visible Damage Noted	
Estimated Depth 15" ☐	Radiant Barrier ☐ Concealed ☐	Finished ☐ None ☐	
	Vapor Barrier ☐ Fibreglass ☒	Mineral ☐ Cellulose ☐	
	Wood Shavings ☐ Rigid Plastic ☐	Foam ☐ Other ☐	
	Batt ☐ Blown/Loose ☒	Sprayed ☐ Required ☐	
VENTILATION		Not Applicable	
None ☐	Soffit ☐ Gable End ☐	Turbine ☐ Mechanical ☐	
	Baffles ☐ Roof/Ridge ☐	Blocked ☐ Required ☐	
EXHAUST DUCT		Not Applicable	
Concealed ☐	Not Insulated ☐ Into Attic ☐	Plastic/Flex ☐ Metal ☐	
ELECTRICAL		Visible Damage Noted	
Concealed ☐	Abandoned ☐ Knob & Tube ☐	Open Splice ☒ Frayed ☐	

STRUCTUREAttic structure photos # 171 South, #174 West, # 175 North**INSULATION**Water pipe from abandoned radiant heating system. Pipe insulation likely has asbestos.Photo # 172**ELECTRICAL**Install junction box where wires are currently spliced. Photo # 173

105 6th St. N - Teacher Cottage

ELECTRICAL SERVICE / PANEL

SERVICE ENTRANCE		DISTRIBUTION PANEL	
Underground ☐ Overhead ☒	120-Volt ☐ 120/240 Volt ☐	No Conduit ☐ Frayed ☐	<u>200 Amp electric panel at back porch.</u>
ENTRANCE CABLE	Concealed ☐ Aluminum ☐	Copper ☐	<u>Photo # 140</u>
MAIN DISCONNECT	Switch/Cartridge Fuse ☐ Breaker ☒		
DISCONNECT RATING	200 Amps	Have Electrician Evaluate ☐	
DISTRIBUTION PANEL		No Visible Damage Noted	
Not Opened ☐	Location back porch	Non Standard Installation ☐	
Obstructed ☐ Unsecured ☐		Corrosion ☐ Obsolete ☐	
PANEL RATING	200 Amps	Room for Expansion ☒	
FUSE Breaker ☐ Glass/Screw ☐	Cartridge ☐ Time Delay ☐		
GFCI Breaker ☐ AFCI Breaker ☐	Blown/Broken ☐ Over-Fused ☐		
CIRCUIT WIRE		Not Applicable	
Improper ☐	Aluminum ☐ Copper ☐	Copper Clad ☐ Other ☐	
Non - Metallic Sheathed ☐ Armoured Cable ☐		Knob & Tube ☐	
Double Tapping ☐ Spliced ☐		Corrosion ☐ Scorched ☐	
GROUNDING	Concealed ☐ Ground Rod ☐	Water Main ☐	
Improper Connection/Installation ☐		Meter By-Pass/Jumper ☐	
BONDING	Concealed ☐ Water Pipe ☐	Gas Pipe ☐	
Improper Connection/Installation ☐		Corrosion ☐ Unsecured ☐	
AUXILIARY PANEL		Not Applicable	
Concealed ☐	Location	Non Standard Installation ☐	
Not Opened ☐ Unsecured ☐		Corrosion ☐ Obsolete ☐	
DISCONNECT RATING	0 Amps	Have Electrician Evaluate ☐	
PANEL RATING	0 Amps	Room for Expansion ☐	
FUSE Breaker ☐ Glass/Screw ☐	Cartridge ☐ Time Delay ☐		
GFCI Breaker ☐ Blown/Broken ☐	Over-Fused ☐ Scorched ☐		



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BNSF Levee Remediation Properties, Skykomish

LIMITATION	Finished Basement ☐	Private/Water Shut Off ☐	Private System ☐	Other ☐
PUBLIC SUPPLY	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
SHUT-OFF VALVE	Location ☐			
	Not Tested ☐	Corrosion ☐	Leak ☐	
PRIVATE SUPPLY	Concealed ☐	Not Applicable		
SHUT-OFF VALVE	Location ☐			
	Not Tested ☐	Corrosion ☐	Leak ☐	
WELL PUMP	Submersible ☐	Jet ☐	Other ☐	
	Short Cycle ☐	Corrosion ☐	Leak ☐	
	Advise Well Water Quality/Recovery Test ☐			
STORAGE TANK	No Air Valve ☐	Corrosion ☐	Leak ☐	
WATER PRESSURE	Low ☐	Typical ☐	High ☐	
WATER QUALITY	Discoloration ☐	Debris ☐	Odor ☐	
	Test Declined ☐	Advise Water Quality Test ☐		
HOSE BIBB	Not Checked ☐	Not Applicable		
Frost Free ☐	Anti-Siphon ☐	Shut Off Valve ☐		
Recaulk ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
DISTRIBUTION PIPING	Concealed ☐	Not Applicable		
Lead ☐	Galvanized ☐	Plastic ☐	Copper ☐	
Dissimilar Metal ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
CROSS CONNECTION	Kitchen ☐	Laundry ☐	Hose Bibb ☐	
WASTE DRAINAGE	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
	Advise Septic Tank Checked/Pumped ☐			
FLOOR DRAIN	Mechanical/Faucet Primer ☐			
None ☐	Backed-Up ☐	No Water ☐	No Trap ☐	
SEWAGE PUMP	Not Checked ☐	Not Applicable		
VENT STACK/PIPING	Concealed ☐	Not Applicable		
Galvanized/Steel ☐	Cast Iron ☐	Plastic ☐	Copper ☐	
Undersized ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
MAIN CLEANOUT	Concealed ☐	Not Applicable		
Improper Plug ☐	Location ☐			
HOT WATER TANK	Hybrid Heating ☐	Not Applicable		
Power-Vented ☐	Own ☐	Rent ☐	Est. Capacity 50 US	
Gas/Propane ☐	Oil ☐	Wood/Coal ☐	Electric ☒	
Dirty/Rusty/Odor ☐	Unsecured ☐	Corrosion ☐	Leak ☐	
LIFE EXPECTANCY	Typical ☐	End ☒	Exceeded ☐	
FUEL SHUT-OFF	Concealed ☐	Location ☐		
RELIEF VALVE	No Test Lever ☐	Corrosion ☐	Other ☐	
DISCHARGE TUBE	Undersized ☐	Discharge ☐	Missing ☐	
VENTING	Flue ☐	Sidewall ☐	Not Applicable	
Improper Rise ☐	Unsecured ☐	Corrosion ☐	Soot ☐	
BURN CHAMBER	Not Checked ☐	Needs Adjustment ☐		
SUMP PUMP	Not Checked ☐	Not Applicable		
Submersible ☐	Standpipe ☐	To Exterior Grade ☐		
Float Checked ☐	No/Improper Cover ☐	Permanent Connection ☐		
Corrosion ☐	To Septic/Sewer ☐	Suspect Installation ☐		

HOT WATER TANK

50 gallons electric water heater is 12 years old. Typical life expectancy is 12 to 15 years. Photo # 148



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BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn ☐	No Drain ☐	Not Applicable	WINDOW
	Concrete ☐	Vinyl ☐	Wood/Lam ☐	Ceramic ☐
WALL	Patched ☐	Unfinished ☐	Not Applicable	<u>Window is uneven in laundry room.</u>
	Drywall/Plaster ☐	Brk/Blk/Stone ☐	Wood/WP ☐	Ceramic ☐
CEILING	Patched ☐	Unfinished ☐	Not Applicable	
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Binds ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fx ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/W.Cl ☐	Wd./Vnly/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Binds ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Not Applicable	
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
TUB / FAUCET		Unsecured ☐	Not Applicable	
	Plastic ☐	Other ☐	Slow Drain ☐	Corrosion ☐
TRAP / DRAIN		Unsecured ☐	Not Applicable	
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐	Leak ☐
WASHER	Make		Not Applicable	
DRYER	Make		Not Applicable	
DRYER VENT		Unsecured ☐	Not Applicable	
	With Other Exhaust ☐	To Crawlspace ☐	To Attic ☐	Plastic Duct ☐
HEAT SOURCE		None ☐	Thermostat ☐	Electric ☐
	Air Register ☐	Convector/Radiator ☐		Radiant ☐



FIREPLACE

TYPE	Built-In ☐	Free Standing ☒	Gas Insert ☒	Wood Insert ☒	Metal Liner ☐	Firebrick ☐	External Air Supply ☐
FIREPLACE FRONT	Soot/Stain ☐	Not Applicable	FIREPLACE FRONT				
	Brick ☐	Ceramic ☐	Marble ☐	Stone ☐			
HEARTH	Raised ☐	None ☐	Not Applicable				
DOOR/ SCREEN	None ☐	Not Applicable					
	Binds ☐	Glass ☐	Metal ☐	Mesh ☐			
	Poor Fit ☐	Unsecured ☐	Corrosion ☐	Crack ☐			
FIREBOX	Fan ☐	Not Checked ☐	Not Applicable				
DAMPER	None ☐	Not Applicable					
	Sticks ☐	Unsecured ☐	Corrosion ☐	Creosote ☐			
GAS INSERT	Fan ☐	Not Tested ☒	Not Applicable				
WOOD/PELLET STOVE	Not Tested ☒	Not Applicable					
	Soot ☐	Suspect Installation ☐	Certification Not Apparent ☐				
CHIMNEY FLUE	Not Checked ☐	Not Applicable					
	Soot ☐	Unsecure/Improper ☐	Advise Inspection/Sweeping ☐				



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105 6th St. N - Teacher Cottage

BATHROOM

LOCATION Basement ☐ 1st Floor ☐ 2nd Floor ☐ 3rd Floor ☐ Other ☐WATER FLOW Normal ☐ Suspect ☐ Low ☐FLOOR Worn ☐ Crack/Stain ☐ No Visible Damage Noted
Carpet ☐ Vinyl ☒ Wood/Lam. ☐ Ceramic ☐WALL Patched ☐ Crack/Stain ☐ No Visible Damage Noted
Drywall/Plaster ☒ Brk/Blk/Stone ☐ Wood/WP. ☐ Ceramic ☐CEILING Patched ☐ Crack/Stain ☐ No Visible Damage Noted
Drywall/Plaster ☒ Stip/Acoustic/WP. ☐ Wood ☐ Tile ☐WINDOW Binds ☐ Not Tested ☐ Not Operational
Single/Dbl. Hung ☒ Cas./Awning ☐ Sliding/Fxd ☐ Bay/Bow ☐
Ther/Fix/Sng ☐ Alum./Metal ☐ Vinyl/V.Cl ☐ Wood ☒
Damaged ☐ Mildew/Mold ☐ Stain/Rot ☐ Repaint ☐DOOR Binds ☐ Damaged ☐ Not Applicable
Pocket ☐ Hinged ☒ Wood ☒ Composite ☐LIGHTING None ☐ Unsecured ☐ OperationalRECEPTACLE Damaged/No Cover ☐ Not Applicable
Install GFCI ☐ Reverse Polarity ☐ No Ground ☐ Open Ground ☐EXHAUST FAN Advise Installation ☐ OperationalSINK Worn ☐ Chip/Scratch ☐ No Visible Damage NotedFAUCET No Shut-Off ☐ Not ApplicableSticks ☐ Unsecured ☐ Corrosion ☐ Leak ☐TRAP/DRAIN Unsecured ☐ Not ApplicableImproper Trap ☐ Slow Drain ☐ Corrosion ☐ Leak ☐VANITY Worn ☐ Unsecured ☐ Not Applicable
Laminate ☐ Plywood ☐ Wood ☐ Metal ☐
Scratch ☐ Mildew/Stain ☐ Missing/Loose Hardware ☐COUNTER Unsecured ☐ Not ApplicableSolid Surface ☐ Mtbl./Granite ☐ Laminate ☐ Ceramic ☐RegROUT/RecAULK Mildew/Stain ☐ Scratch ☐ Worn ☐TOILET No Shut-Off ☐ Not ApplicableTank Loose ☐ Unsecured ☐ Crack ☐ Leak ☐TUB / ENCLOSURE Unsecured ☐ No Visible Damage NotedCeramic ☐ Cult./Marble ☐ Fiberglass ☐ Plastic ☐RegROUT/RecAULK Mildew/Stain ☐ Crack ☐ Worn ☐JETTED TUB Not Tested ☐ Not ApplicableGFCI Protected ☐ Motor Access ☐ Corrosion ☐ Leak ☐FAUCET/SHOWER HEAD Not Tested ☐ Not ApplicableSticks/Clogged ☐ Unsecured ☐ Corrosion ☐ Leak ☐SHOWER ENCLOSURE Unsecured ☐ Not ApplicableCeramic ☐ Cult./Marble ☐ Fiberglass ☐ Plastic ☐RegROUT/RecAULK Mildew/Stain ☐ Scratch ☐ Worn ☐FAUCET/SHOWER HEAD Not Tested ☐ Not ApplicableSticks/Clogged ☐ Unsecured ☐ Corrosion ☐ Leak ☐HEAT SOURCE None ☐ Thermostat ☐ Electric ☒Air Register ☐ Convector/Radiator ☐ Radiant ☐

FLOOR

Room photo # 146

WINDOW

Window is sealed shut.

EXHAUST FAN

Fan is noisy.



FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☐	Vinyl ☒	Wood/Lam. ☐	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wallpaper ☐	Ceramic ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Stip/Acous/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Operational	
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V.Cld ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
PATIO DOOR	Bind ☐	Damaged ☐	Operational	
	Sliding ☐	Hinged ☒	Wood ☒	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Install GFCI ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
SINK	Worn ☐	Chip/Scratch ☐	No Visible Damage Noted	
	Single ☒	Double ☐	Stainless ☒	Enamel/S.Sf ☐
FAUCET	No Shut-Off Valve ☐		Not Applicable	
	Sticks ☐	Unsecured ☐	Corrosion ☐	Leak ☐
TRAP/DRAIN	Unsecured ☐		Not Applicable	
	Improper Trap ☐	Slow Drain ☐	Corrosion ☐	Leak ☐
COUNTER	Unsecured ☐		No Visible Damage Noted	
	Ceramic ☐	Marble/Granite ☐	Laminate ☐	Solid Surf. ☐
	RegROUT/Recaulk ☐	Mildew/Stain ☐	Scratch ☐	Worn ☐
CABINET	Worn ☐	Unsecured ☐	Not Applicable	
	Laminate ☐	Plywood ☐	Wood ☒	Metal ☐
	Miss/Loose Hdwr ☐	Mildew/Stain ☐	Scratch ☐	Other ☐
RANGE HOOD	Cooktop Exhaust ☐	Not Applicable		
	Corrosion ☐	No Exhaust ☐	No Light ☐	Noisy ☐
EXHAUST VENT	Unsecured ☐		Ductless ☐	Concealed ☐
	With Other Exhaust ☐	To Attic ☐	Improper ☐	To Exterior ☐
FILTER	None ☐	Unsecured ☐	Damaged ☐	Greasy ☐

MAJOR APPLIANCES (Built In)

DISHWASHER	Not Applicable
GARBAGE DISPOSAL	Not Applicable
STOVE/OVEN/RANGE	Not Applicable
REFRIGERATOR	Not Applicable
MICROWAVE	Not Applicable
Tested On/Off ☐	Did Not Check All Functions/Full Cycle ☐

HEAT SOURCE	None ☐	Thermost ☐	Electric ☐
Air Register ☐	Convector/Radiator ☐	Radiant ☐	

FLOORRoom photo # 138**WALL**Filled/sealed old flue vent - photo # 139.**WINDOW**Only the NW corner window functions properly, others are painted shut.**HEAT SOURCE**Old electric wall heater functioned when tested.



FLOOR	Worn ☒	Crack/Stain ☒	Visible Damage Noted	
	Carpet ☐	Vinyl ☒	Wood ☒	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Stipple ☐	Wood ☐	Tile ☐
WINDOW	Binds ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl Clad ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
CLOSET/DOOR	Binds ☐	Damaged ☐	Operational	
	Light ☐	Pocket/Bi-Fold ☐	Hinged ☒	Sliding ☐
STAIRWAY	Unsecured ☒	No Visible Damage Noted		
	Carpet ☐	Vinyl ☐	Wood ☒	Worn ☐
RAILING	Unsecured ☒	No Visible Damage Noted		
	Metal ☐	Wood ☒	Incomplete ☐	None ☐
FRONT DOOR	Damaged ☐	Operational		
	Binds ☐	Metal Clad ☐	Wood ☒	Dead Bolt ☐
	Replace Sil/Trim ☐	Weather Seal ☐	Split/Dent ☐	Worn ☐
SIDE LIGHT	Loose ☐	Crack/Stain ☐	Not Applicable	

FLOOR

Old linoleum flooring at entry and hallway is cracked and chipped. This material may contain asbestos. Photo # 150.

STAIRWAY

Stairway and base landing platform are loose - photo # 151.

STAIRWAY RAILING

Lower and upper stair rails are loose - photo # 155.



FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☒	Vinyl ☐	Wood ☐	Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐	Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Stipple ☐	Wood ☐	Tile ☐
WINDOW	Binds ☐	Not Tested ☐	Operational	
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl Clad ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Binds ☐	Damaged ☐	Operational	
	Pocket/Bi-Fold ☐	Hinged ☒	Wood ☒	French ☐
PATIO DOOR	Binds ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐	Operational		
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☐		Thermostat ☒	Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR

Room photo for 1st floor Den/Office # 147

WINDOW

Windows open - South window has newer frame.

HEAT SOURCE

Baseboard heater functions.



105 6th St. N - Teacher Cottage

LIVING ROOM

6/12/2006 9:01:04 PM

BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐ Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Operational
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fbx/Sng ☐	Alum./Metal ☐	Vinyl/V. Cld ☐ Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational
	Pocket/BI-Fold ☐	Hinged ☒	Wood ☒ French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Not Applicable
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE		None ☒	Thermostat ☐ Electric ☐
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐

FLOOR

Room photos # 144 & 145 Pellet stove in corner.

WINDOW

All windows are sealed shut except for SE window which opens.

105 6th St. N - Teacher's Cottage

DINING ROOM

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted
	Carpet ☐	Vinyl ☐	Wood ☒ Ceramic ☐
WALL	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Brk/Blk/Stone ☐	Wood ☐ Wallpaper ☐
CEILING	Patched ☐	Crack/Stain ☐	No Visible Damage Noted
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐ Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Operational
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐ Bay/Bow ☐
	Ther/Fbx/Sng ☐	Alum./Metal ☐	Vinyl/V. Cld ☐ Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐ Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational
	Pocket/BI-Fold ☐	Hinged ☒	Wood ☒ French ☐
PATIO DOOR	Bind ☐	Damaged ☐	Not Applicable
	Sliding ☐	Hinged ☐	Wood ☐ Metal/Vinyl ☐
LIGHTING	None ☐	Unsecured ☐	Operational
CEILING FAN	None ☐	Unsecured ☐	Not Applicable
RECEPTACLE	Damaged/No Cover ☐		Not Applicable
	Switched ☐	Reverse Polarity ☐	No Ground ☐ Open Ground ☐
HEAT SOURCE		None ☐	Thermostat ☐ Electric ☒
	Air Register ☐	Convactor/Radiator ☐	Radiant ☒



105 6th St. N - Teacher Cottage

BEDROOM

Pillar To Post 6/12/2006 9:32:39 PM BNSF Levee Remediation Properties, Skykomish

FLOOR	Worn ☐	Crack/Stain ☐	No Visible Damage Noted	
	Carpet ☐	Vinyl ☐	Wood ☒	Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	No Visible Damage Noted	
	Drywall/Plaster ☒	Brk/Blk/Stn ☐	Wood/WP. ☐	Composite ☐
CEILING	Patched ☐	Crack/Stain ☒	No Visible Damage Noted	
	Drywall/Plaster ☒	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Operational	
	Single/Dbl. Hung ☒	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V. Cl ☐	Wood ☒
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Operational	
	Pocket/Bi-Fold ☐	Hinged ☒	Wood ☒	Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Operational	
	Light ☐	Hinged ☒	Bi-Fold ☐	Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Operational	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Not Applicable	
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☒	Thermostat ☐	Electric ☐	
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

FLOOR

Room photo for 2nd floor South bedroom # 156 - Floor exhibits wear from aging but is in fair condition.

2nd floor West bedroom # 162

2nd floor North bedroom # 165 - Floor is worn - photo # 167

WALL

East room off of stairway landing. Common plaster cracks - photo #152, stains (measured dry) and cracks in closets - photos #153 & # 154.

CEILING

North bedroom: Ceiling stains (measured dry) and cracks. Photo #'s 168 & 169.

Extra Comments Continued Next Page...



Pillar To Post

BEDROOM

FLOOR	Worn ☐	Crack/Stain ☐	Not Applicable	
	Carpet ☐	Vinyl ☐	Wood/Lam ☐	Ceramic ☐
WALL	Uneven ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Brk/Blk/Stn ☐	Wood/WP. ☐	Composite ☐
CEILING	Patched ☐	Crack/Stain ☐	Not Applicable	
	Drywall/Plaster ☐	Stip/Acoust/W ☐	Wood ☐	Tile ☐
WINDOW	Bind ☐	Not Tested ☐	Not Applicable	
	Single/Dbl. Hung ☐	Cas./Awning ☐	Sliding/Fxd ☐	Bay/Bow ☐
	Ther/Fix/Sng ☐	Alum./Metal ☐	Vinyl/V. Cl ☐	Wd./Vnyl/Fxd ☐
	Damaged ☐	Mildew/Mold ☐	Stain/Rot ☐	Repaint ☐
DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Pocket/Bi-Fold ☐	Hinged ☐	Wood ☐	Composite ☐
PATIO/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Sliding ☐	Hinged ☐	Wood ☐	Metal/Vinyl ☐
CLOSET/DOOR	Bind ☐	Damaged ☐	Not Applicable	
	Light ☐	Hinged ☐	Bi-Fold ☐	Sliding ☐
LIGHTING	None ☐	Unsecured ☐	Not Applicable	
CEILING FAN	None ☐	Unsecured ☐	Not Applicable	
RECEPTACLE	Damaged/No Cover ☐		Not Applicable	
	Switched ☐	Reverse Polarity ☐	No Ground ☐	Open Ground ☐
HEAT SOURCE	None ☐	Thermostat ☐	Electric ☐	
	Air Register ☐	Convactor/Radiator ☐	Radiant ☐	

**WINDOW**

East room off of stairway landing. The left and center windows function. The third (right side window) is sealed shut.

South bedroom: Only the middle window opens, the others are sealed shut.

West bedroom. No windows open. Glass is cracked at exterior window. Interior glass panel between bedroom and hallway has been replaced with plastic sheet - photo # 163

North bedroom: No windows open. An Air Conditioning unit is installed in middle window.

CLOSET DOOR

Door knobs are missing from closet doors in east room off of stairway landing.

South bedroom, left closet: Plumbing stack has been cut-off and abandoned - Photo # 158.
Abandoned electric cable in right-side closet - photo # 159.

Wall patches were observed in both South bedroom closets and in North bedroom closet. Photo # 160

West bedroom closet door does not open. Knob is not functioning.

Closet windows all function except for SE in South bedroom. It is uneven. Unable to test in west bedroom.

LIGHTING

Light fixtures are missing. Photo # 157 is South bedroom. Photo # 161 is West bedroom (typical plaster crack visible also.)

RECEPTACLE

Sink in West bedroom. Photo # 164

HEAT SOURCE

Old radiators have been removed. Some abandoned plumbing remains. Photo # 166 from South bedroom.

House Moving Work Plan

GREGORY E. NORDHOLM, P.S.

Heavy Lifting & Transport, Engineering, Naval Architecture

4116 - 34th Ave NE, #B | Everett, WA 98205

Tel: (425) 259 - 0213 | Fax: (425) 252 - 5477

info@genps.net | www.genps.net

STRUCTURAL ANALYSIS

House Move Supporting Structure
Analysis by FEA program

FOR

D.B. Davis, LLC.

PROJECT NO. G0629

DATE May 19, 2006

PREPARED BY Kelson Na, P.E.



EXPIRES 06/13/2008

This is analysis report of strength of beam structures under house structure loads.

Analysis is done with finite element analysis program called STAAD Pro 2005.

Unity check of all beams was performed for each load case for analysis purposes.

Unity check shows that all beams are within the allowable stress level for all load cases.

If unity ratio is less than 1.0 means that beam member is within allowable stress level according to AISC.

D.B. Davis, LLC.
House Moving & Raising Specialist
5 GENERATIONS SERVING THE INDUSTRY SINCE 1884
Contractors Registration # DBDAVBD962CO

D.B. DAVIS, LLC. – WORK PLAN

Upon notice to proceed (NTP) D.B. Davis, LLC. will conduct a Pre-Move inspection and walkthrough at the Skykomish jobsite. At this time video, photo and site specific documentation will occur by D.B. Davis representatives, and a report will be submitted to Retec.

Simultaneously, mobilization of equipment will be underway, as will notification to all utility companies for the disconnection of power, cable, telephone, propane and water, (if applicable) to all the houses and buildings to be moved. Site surveys may occur at this time.

Work crews will begin disconnection of all mechanical and tie-down items necessary to facilitate the move process. Removal of porch steps, skirting, decks and any exterior items that may obstruct the move will also be disconnected at this time.

Crews will board up windows, doors and all other openings as needed for security and weather purposes. (Several of the above mentioned events will be taking place simultaneously to expedite the move process, and the exact order in which they take place may vary).

As the buildings are prepared, D.B.Davis, LLC. moving crew will begin the process of "breaking in" which is exterior excavation and removal of foundation walls for the installation of moving equipment.

Once the equipment is installed, various shim work will occur. After shim is installed, buildings will be raised and blocked off ready to receive moving dollies and pull vehicle.

Final prep-excavation will occur for the moving of buildings while dollies and truck are installed.

D.B. Davis, LLC. will co-ordinate with Retec and the utility companies at least 5 days in advance to schedule over head utility clearance.

Prior to moving buildings, D.B. Davis, LLC. will install the security fence on rail side portion of the interim parking location, as to protect all personal from entering non-protected railroad property.

Move day will be coordinated between D.B. Davis, Retec, the Town of Skykomish, Traffic Control and Utility Companies to facilitate the relocations.

When houses are parked in the temporary locations, they will be cribbed on sufficient dunnage and fenced in for public safety and security.

During the time of remediation, work crews may prepare, replace or install new lumber and material needed on the buildings prior to the return at the new foundations.

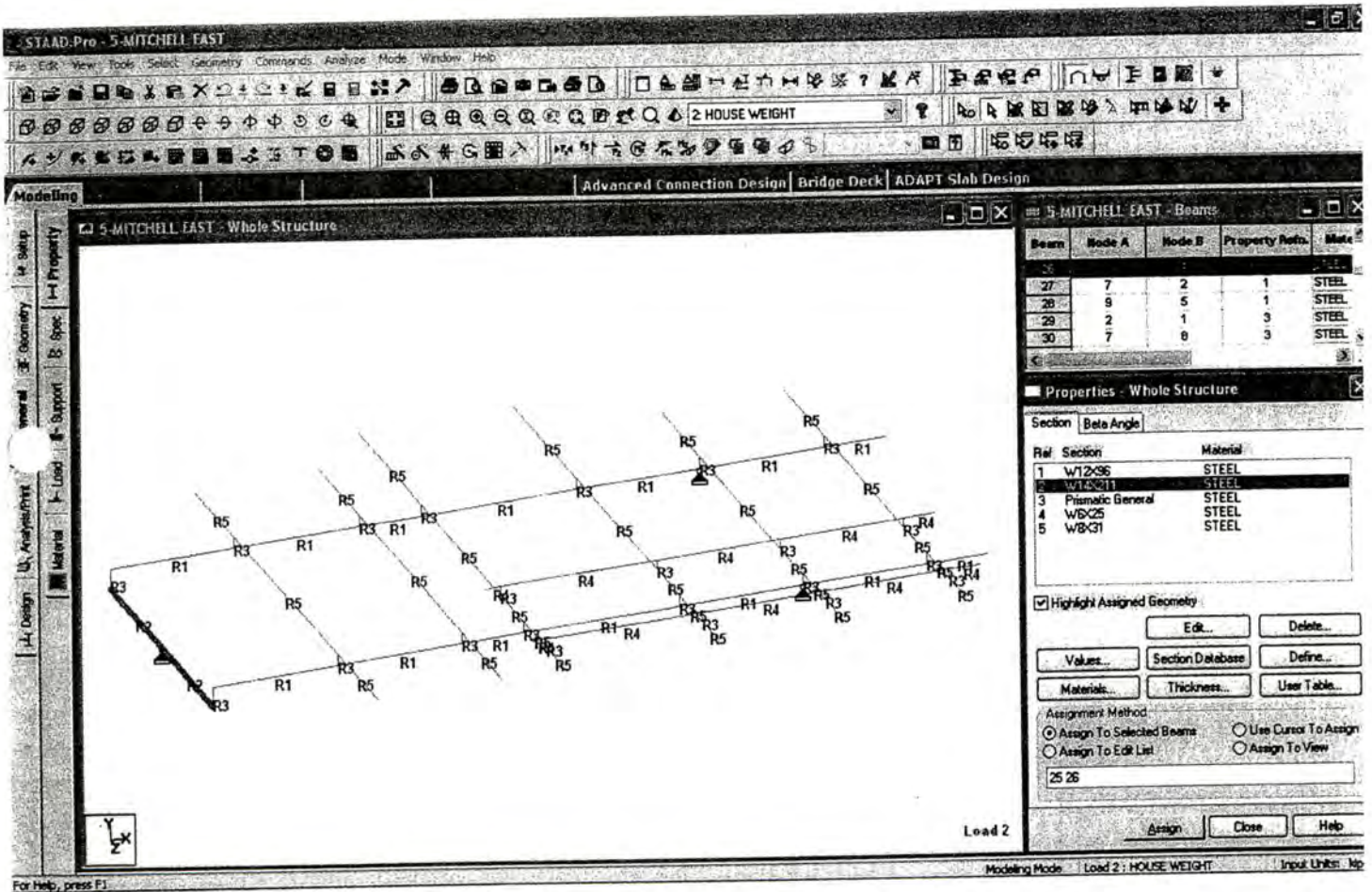
These work crews will follow Rail Road Safety Protocol if need be in order to work at the interim location. Preparation work may take place on the structures prior to final move in order to expedite the last phase of the moving project.

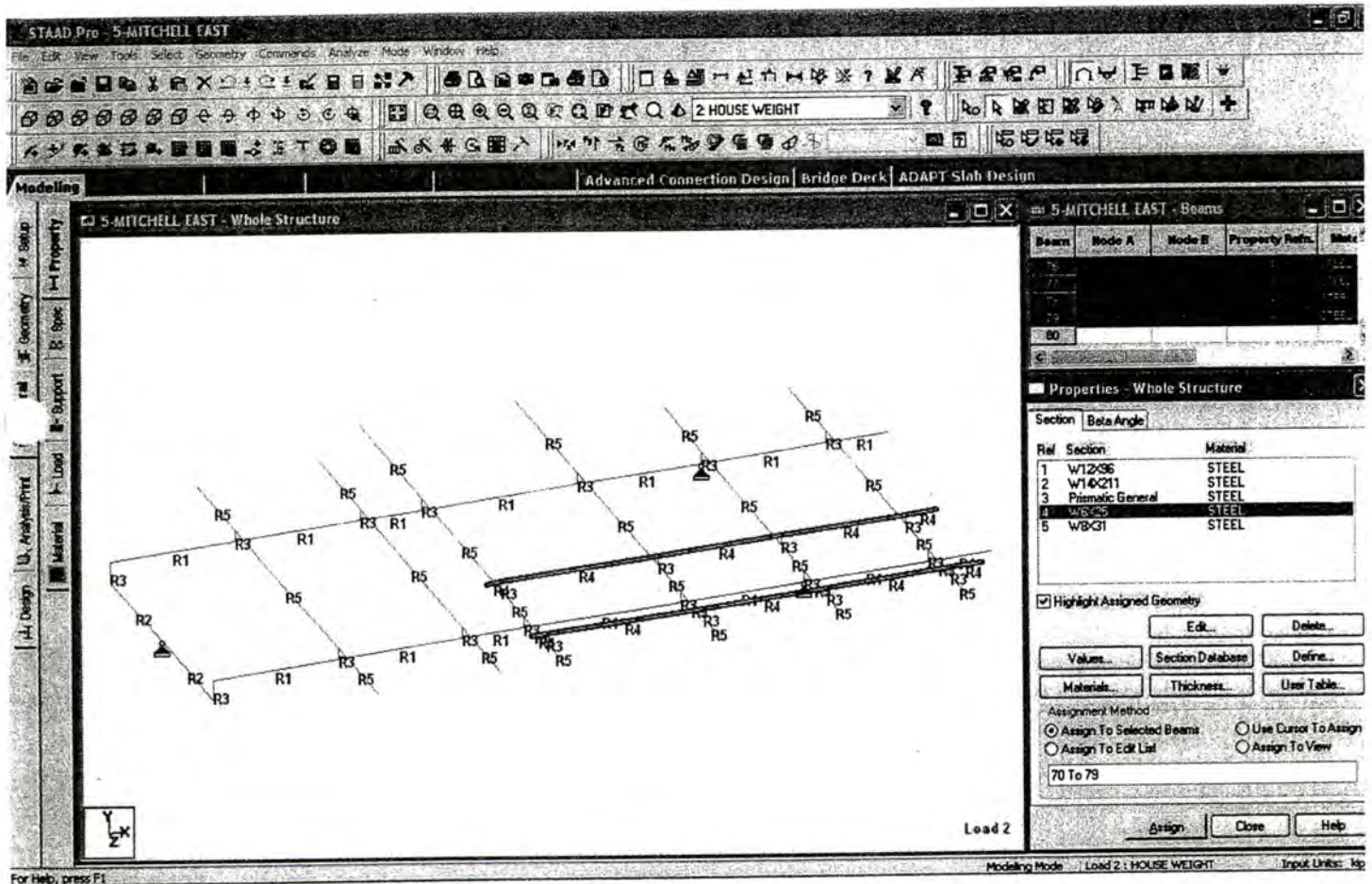
Representatives of D.B. Davis, LLC. will procure lot infrastructure design plans, and all building permits no less than 45-days prior to installation of new foundations. Once remediation is complete, foundation crews will begin the installation of new footings, walls and slabs for the house's to return. During this time, coordination of the return moves will take place.

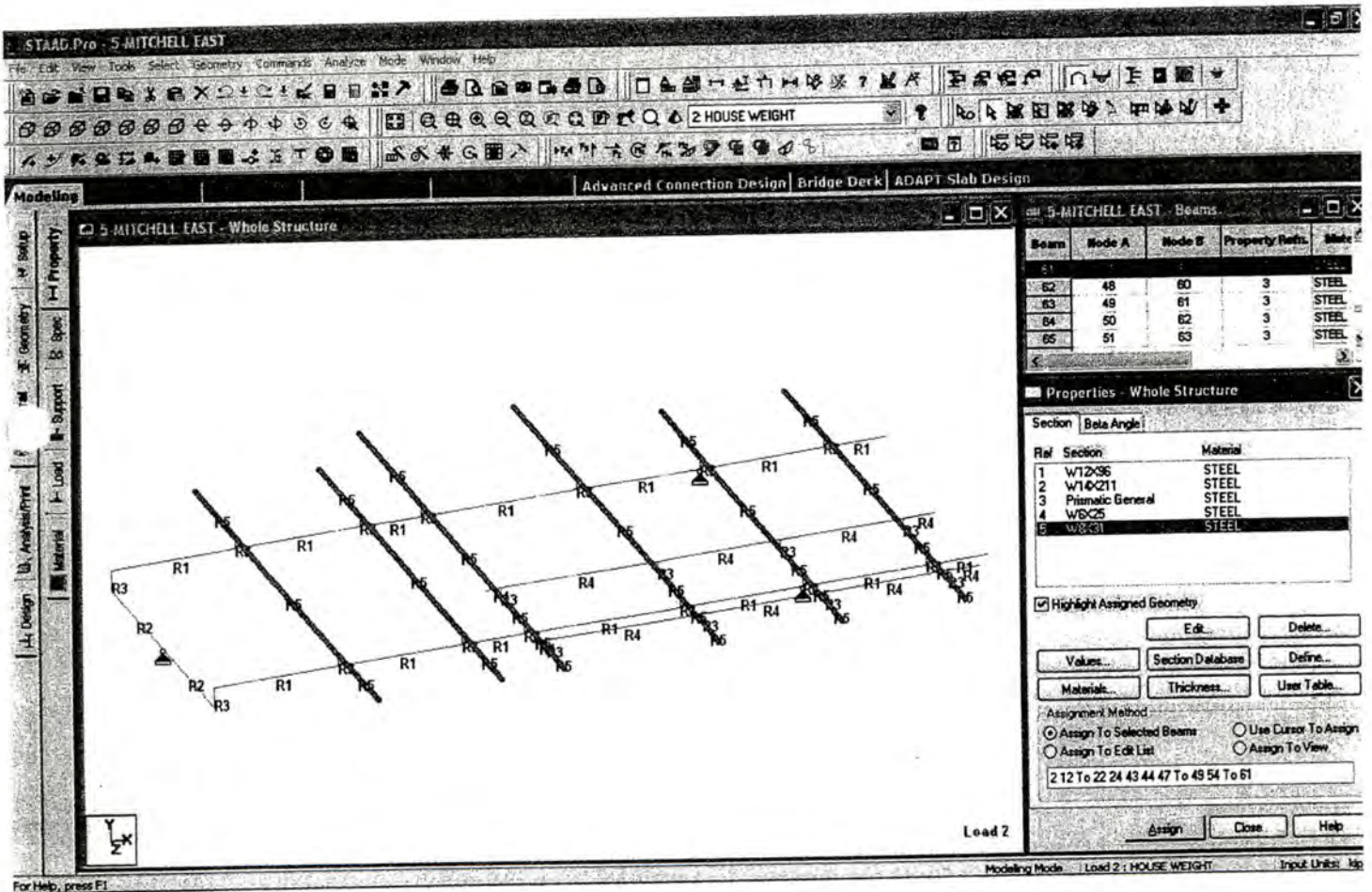
Some of the houses will be returned to the destination sites prior to foundations being poured. Most work, once again will take place simultaneously while buildings are installed and houses are lowered. Final connections and mechanical installations will be completed. Finish backfill and excavating will be complete.

Interior and exterior repairs and replacement of decks, porches, stairs, driveways and sidewalks will be finished.

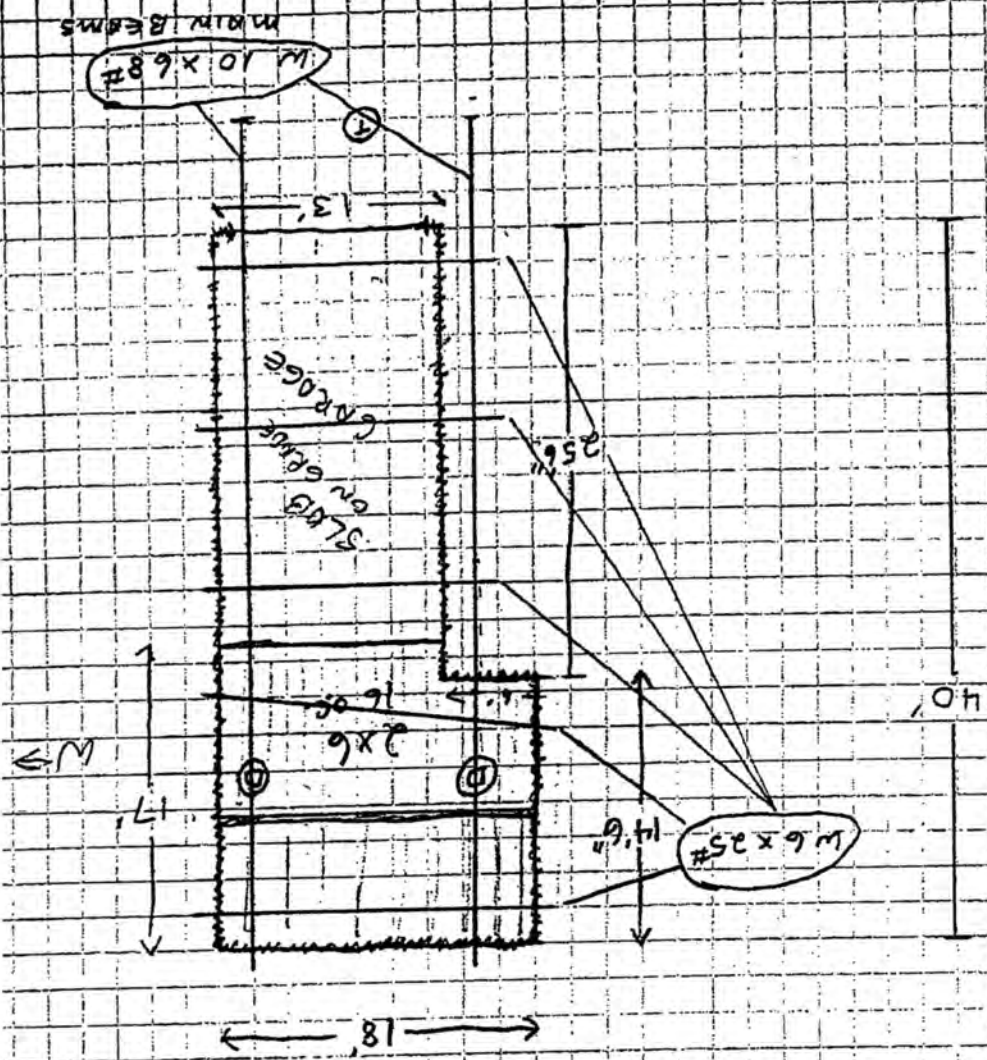
All of D.B. Davis equipment will be transported off site as the equipment is removed from buildings, and no longer needed.

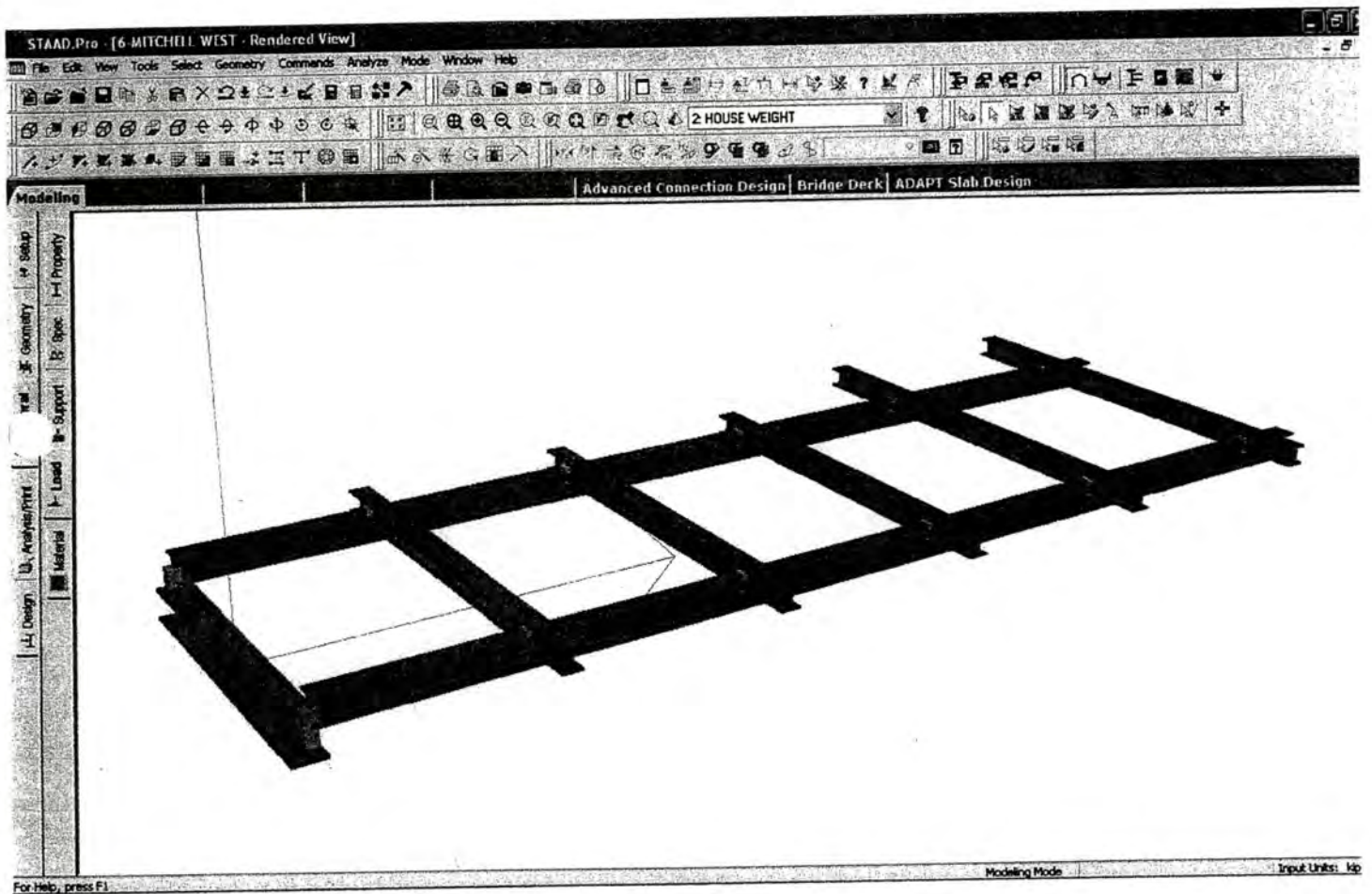


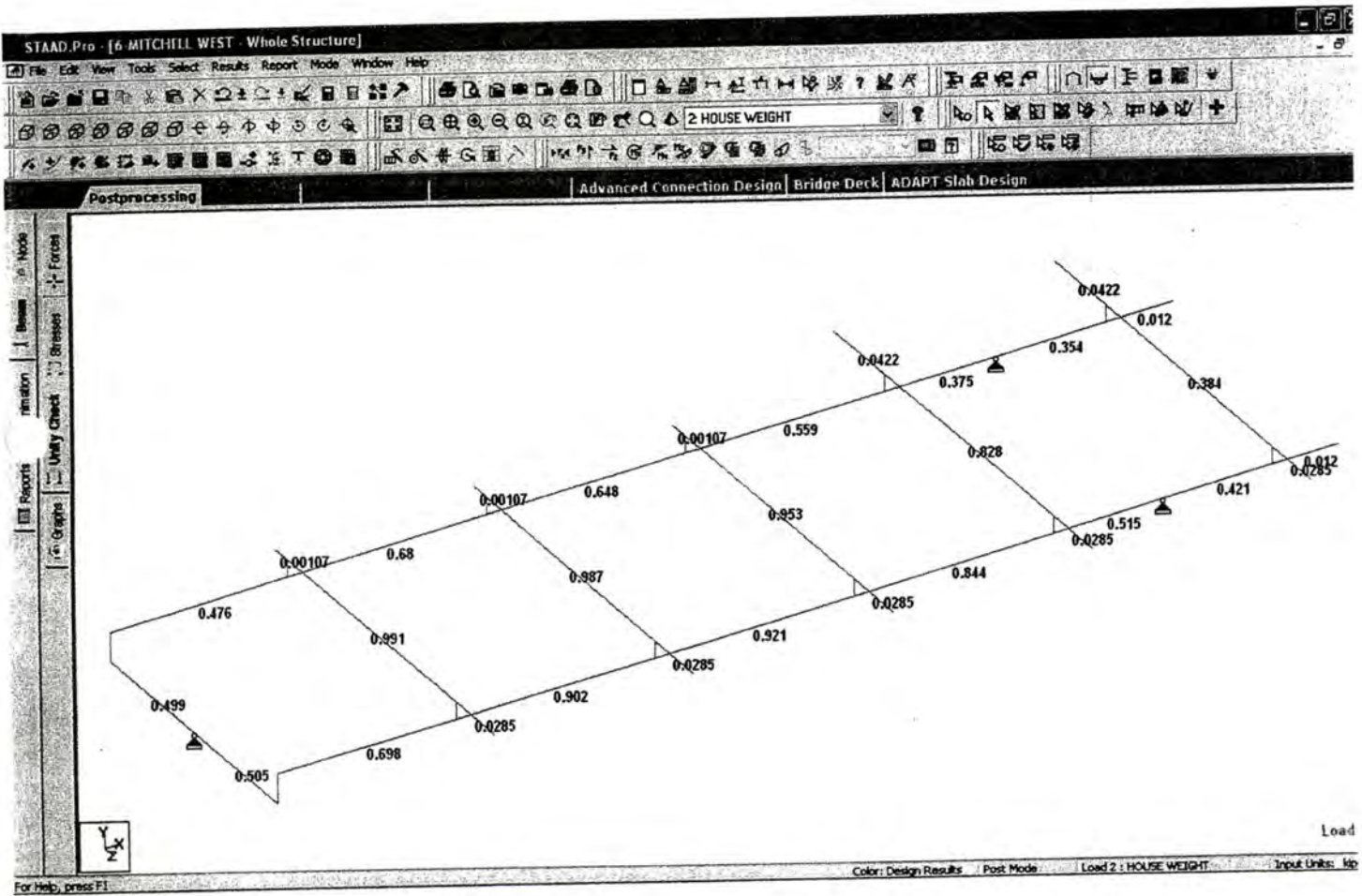


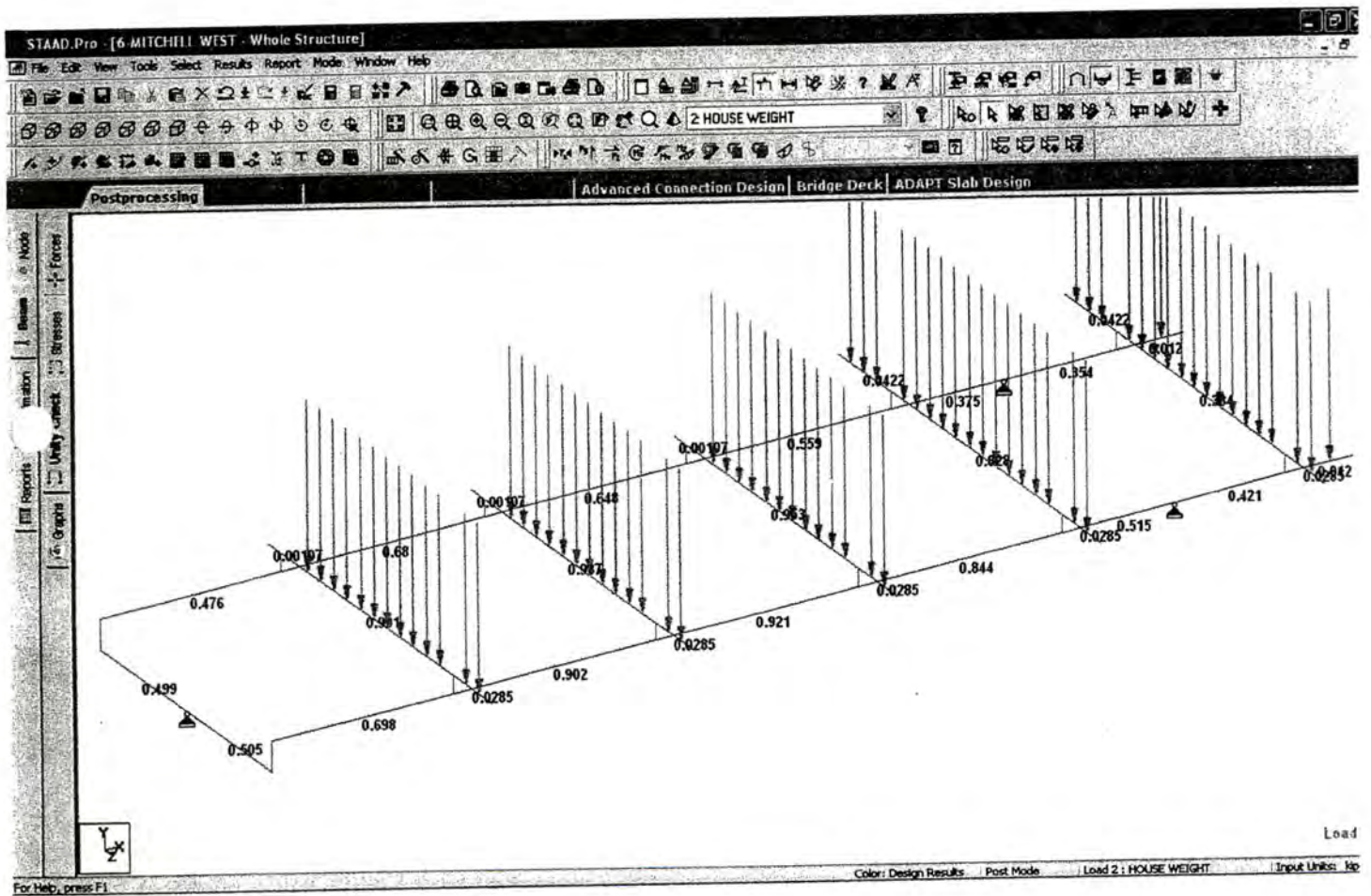


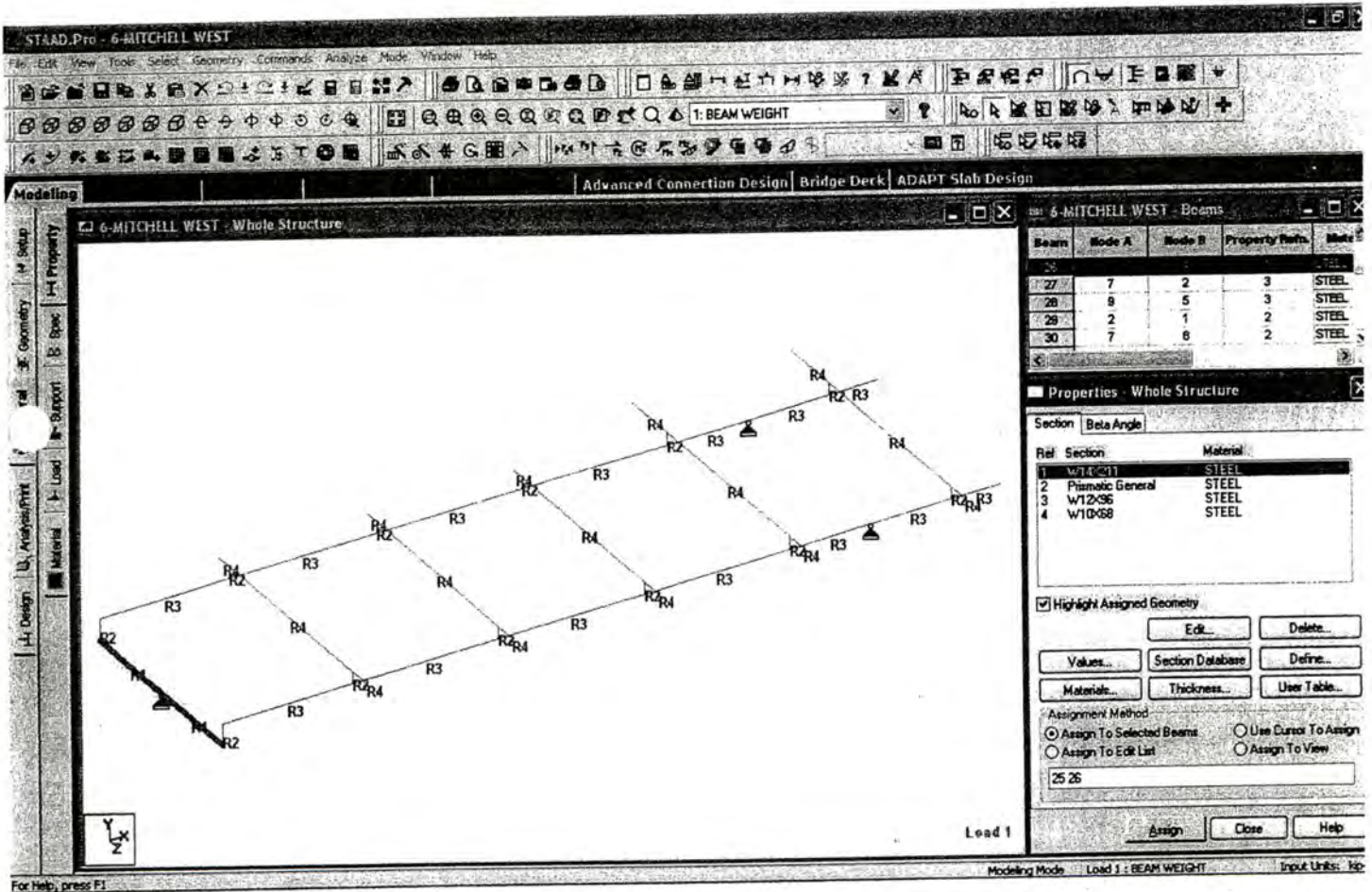
SINGLE STORY WOOD
FRAME HOUSE w/ ATTACHED
GARAGE

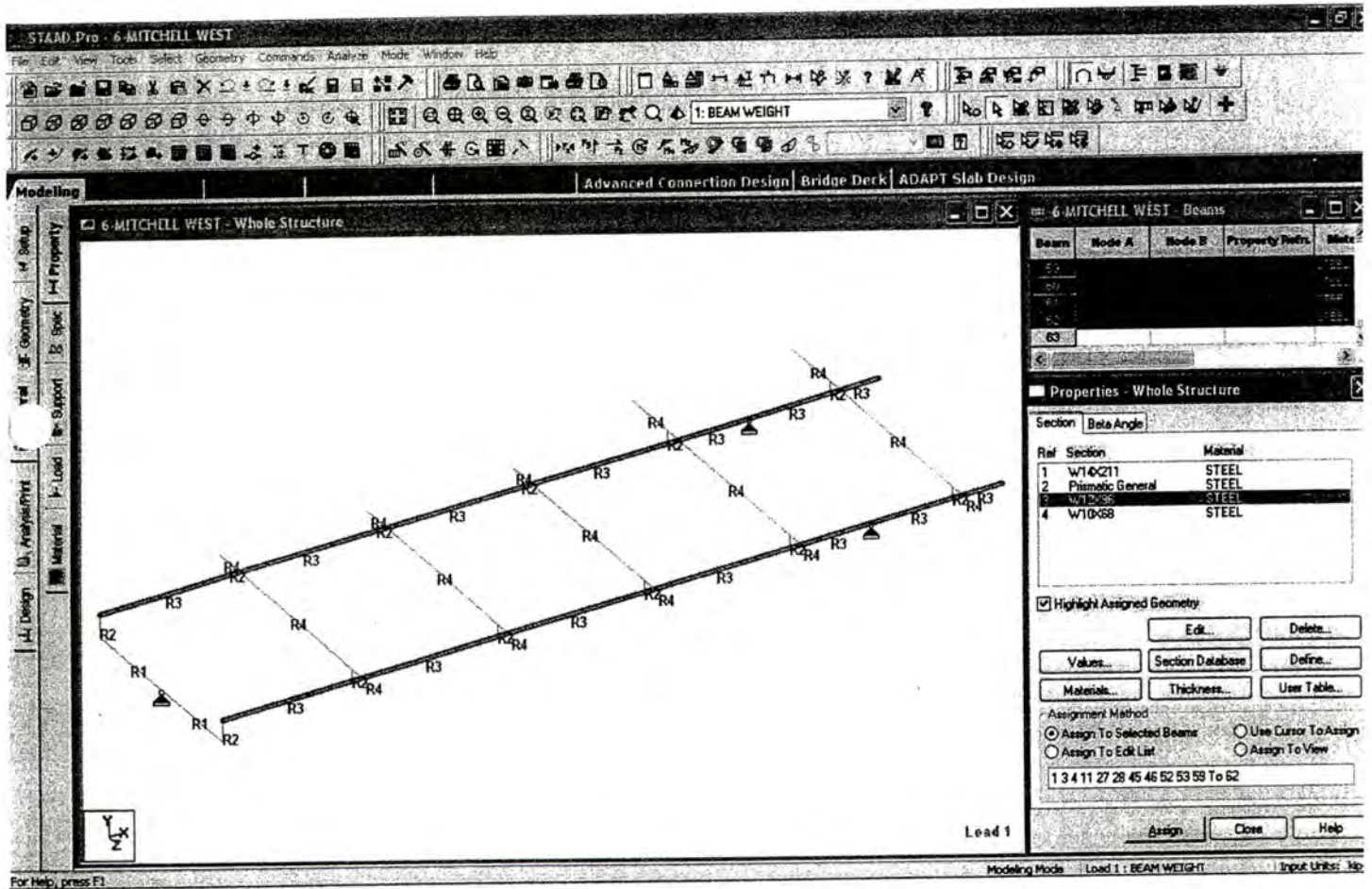


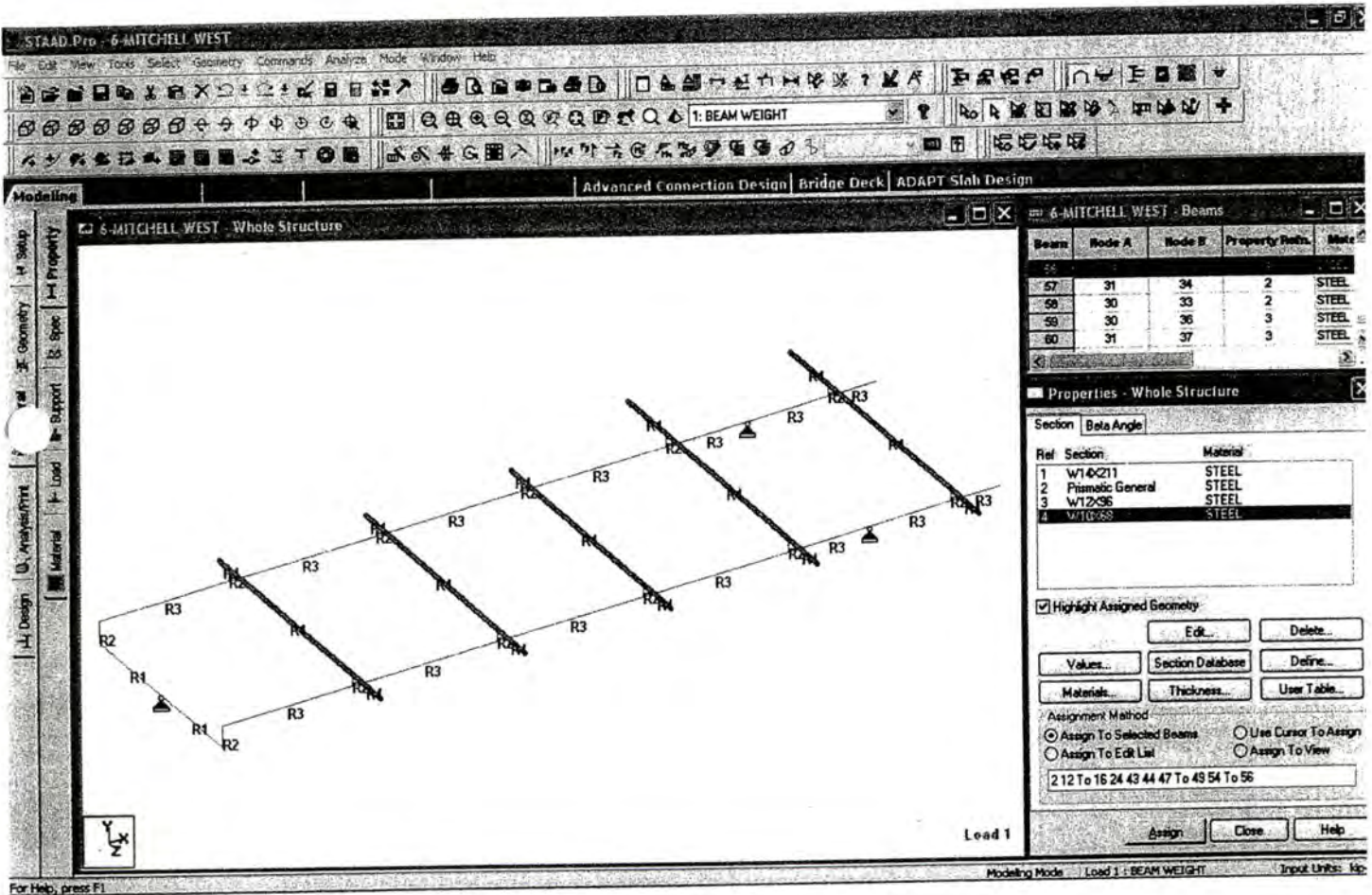




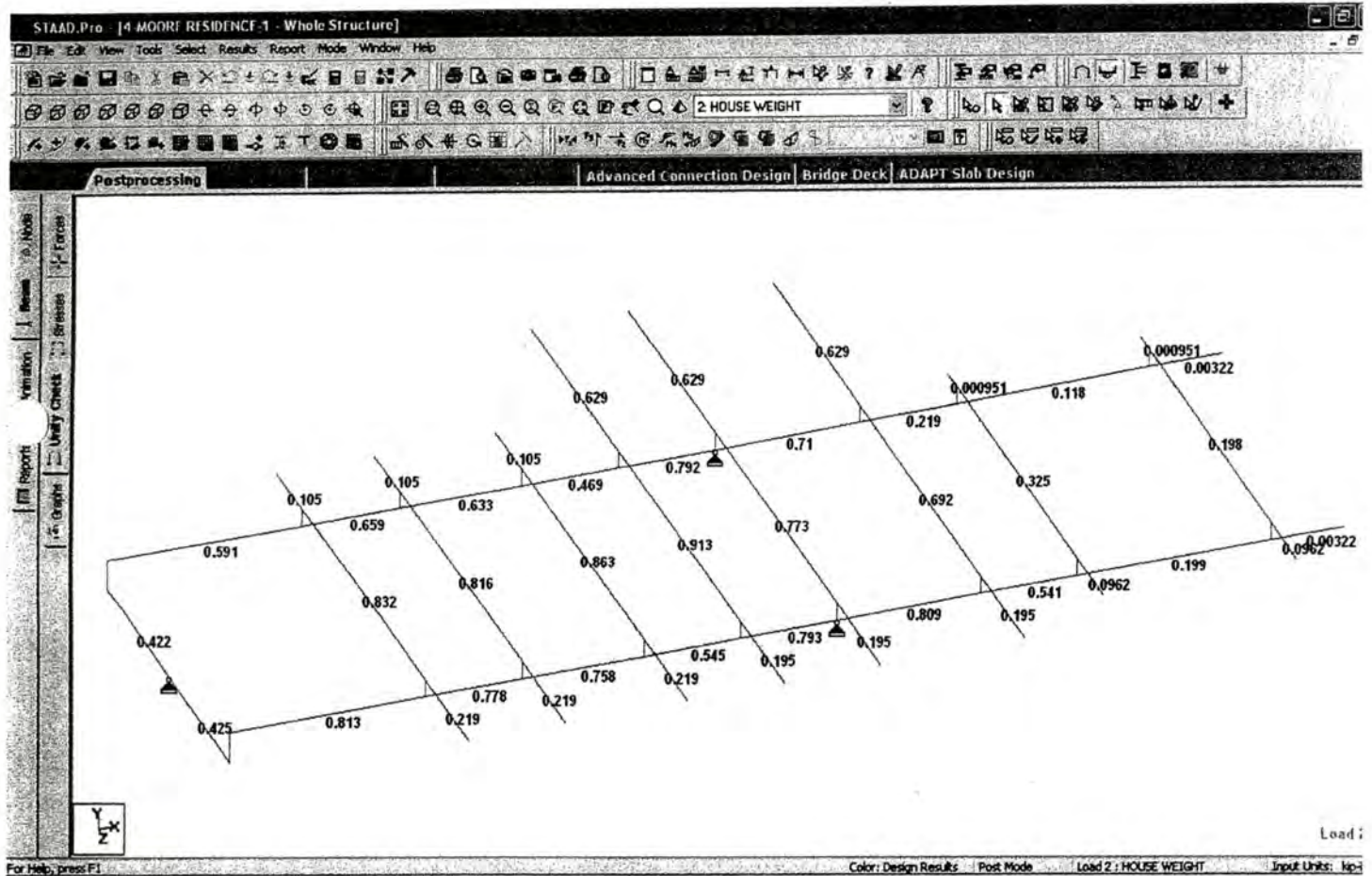


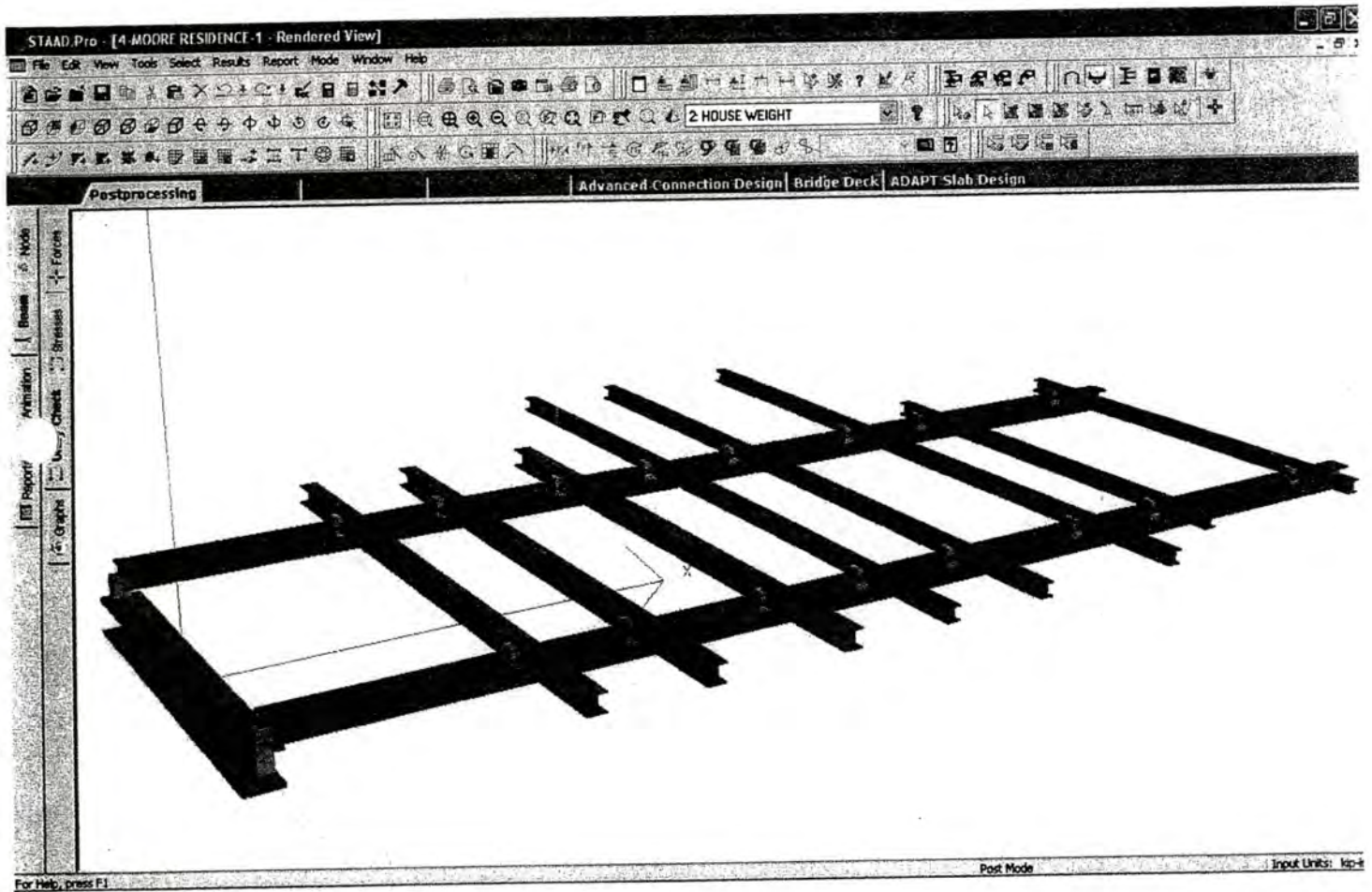


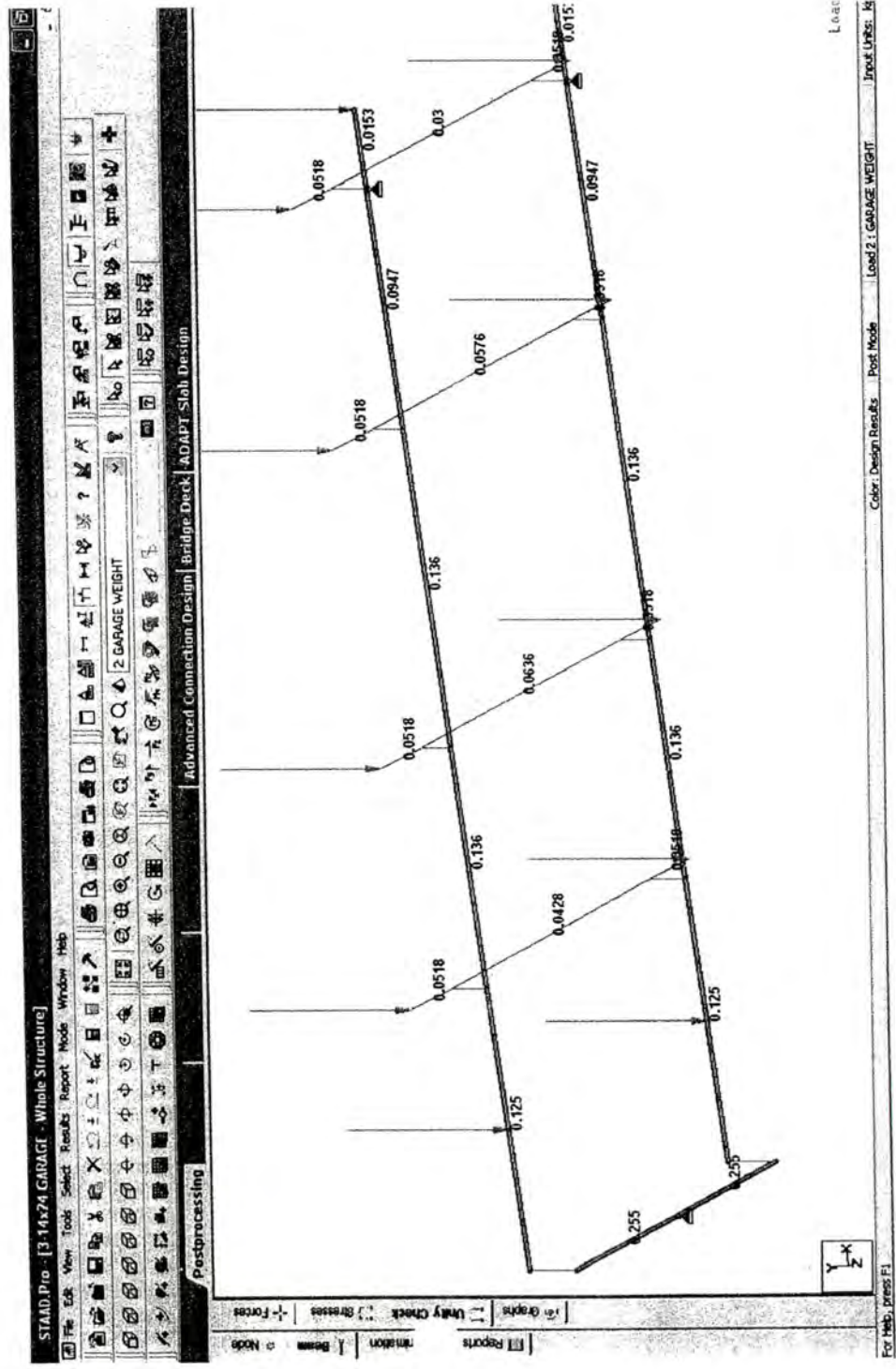


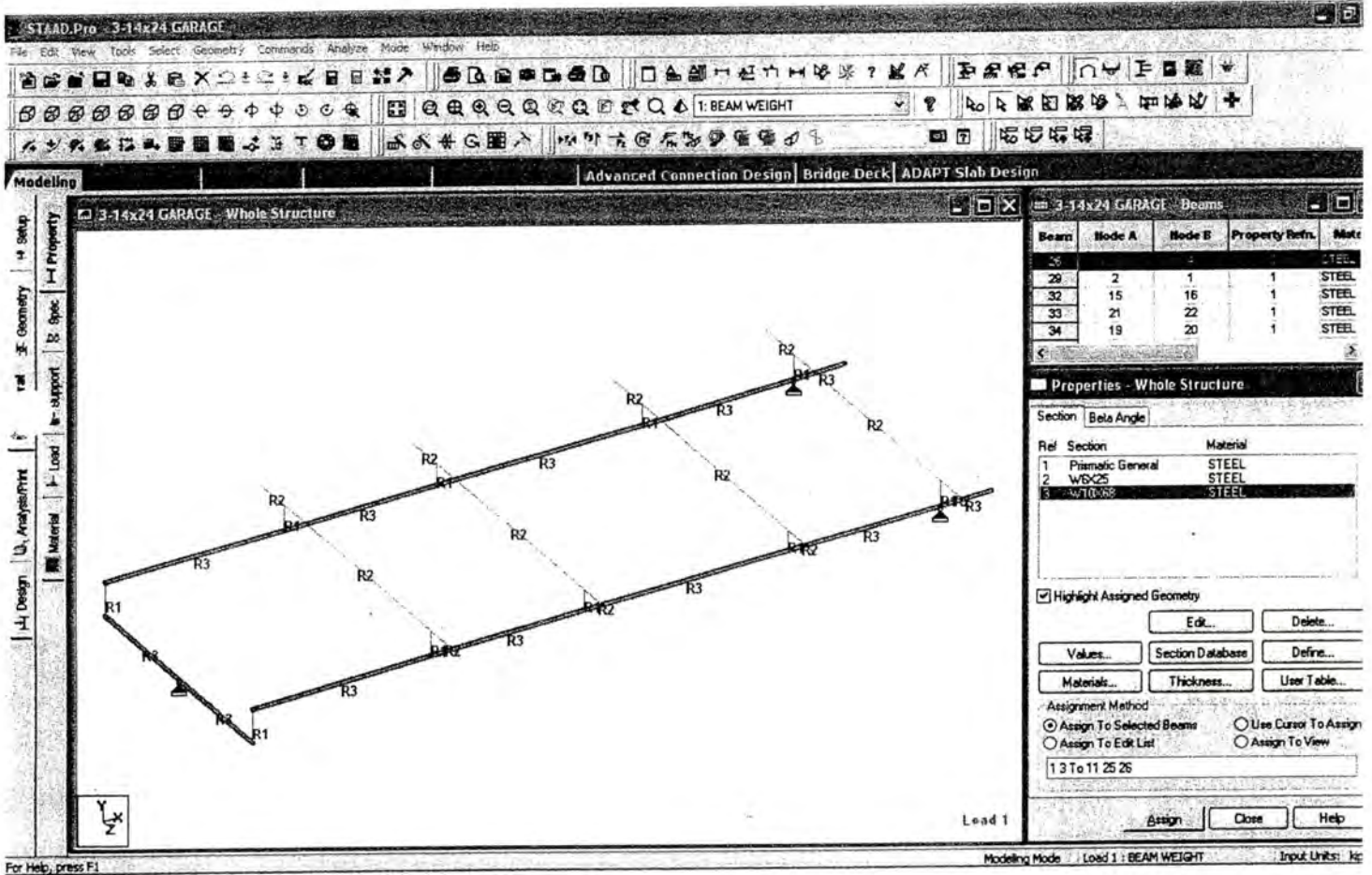


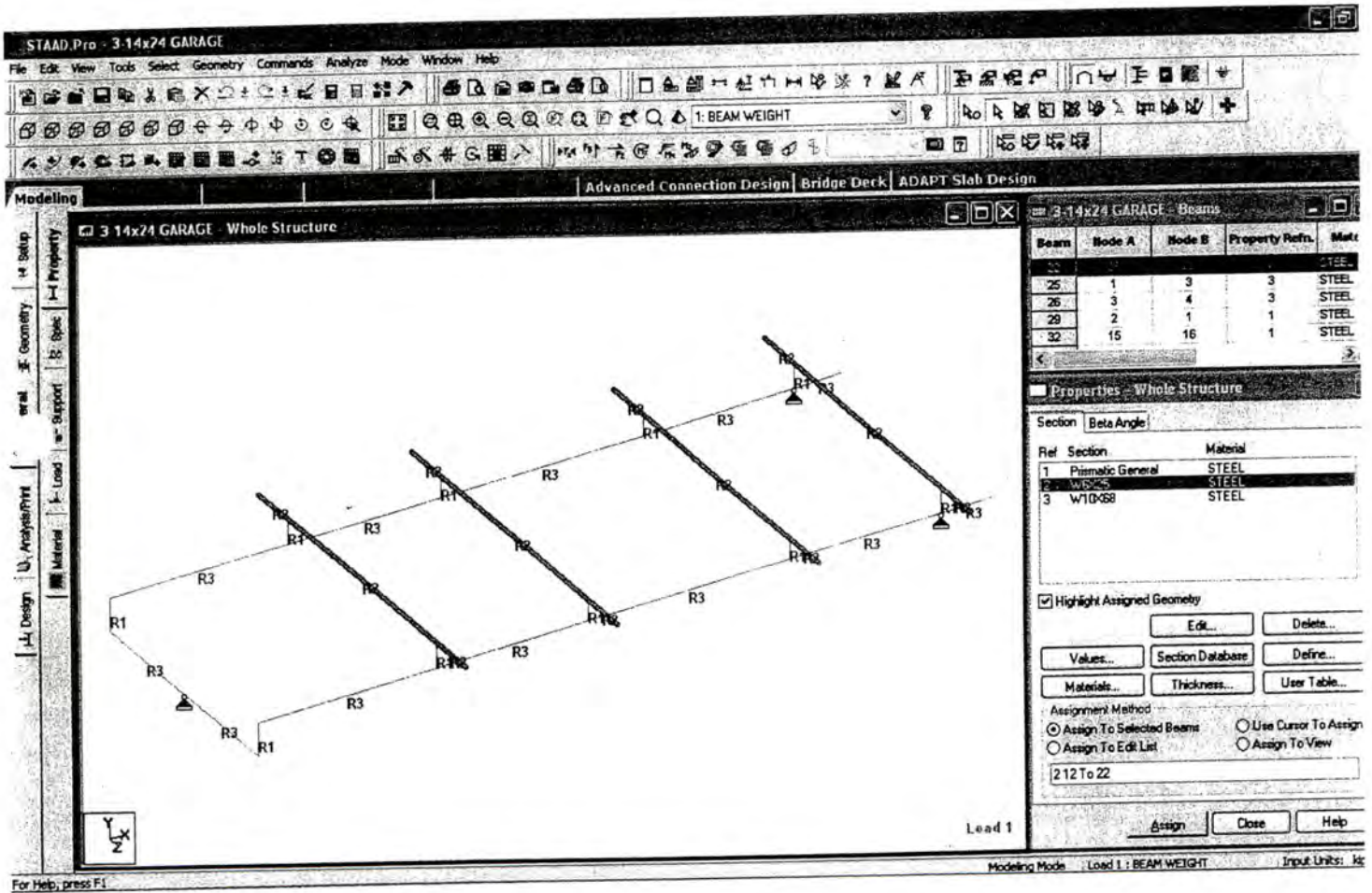


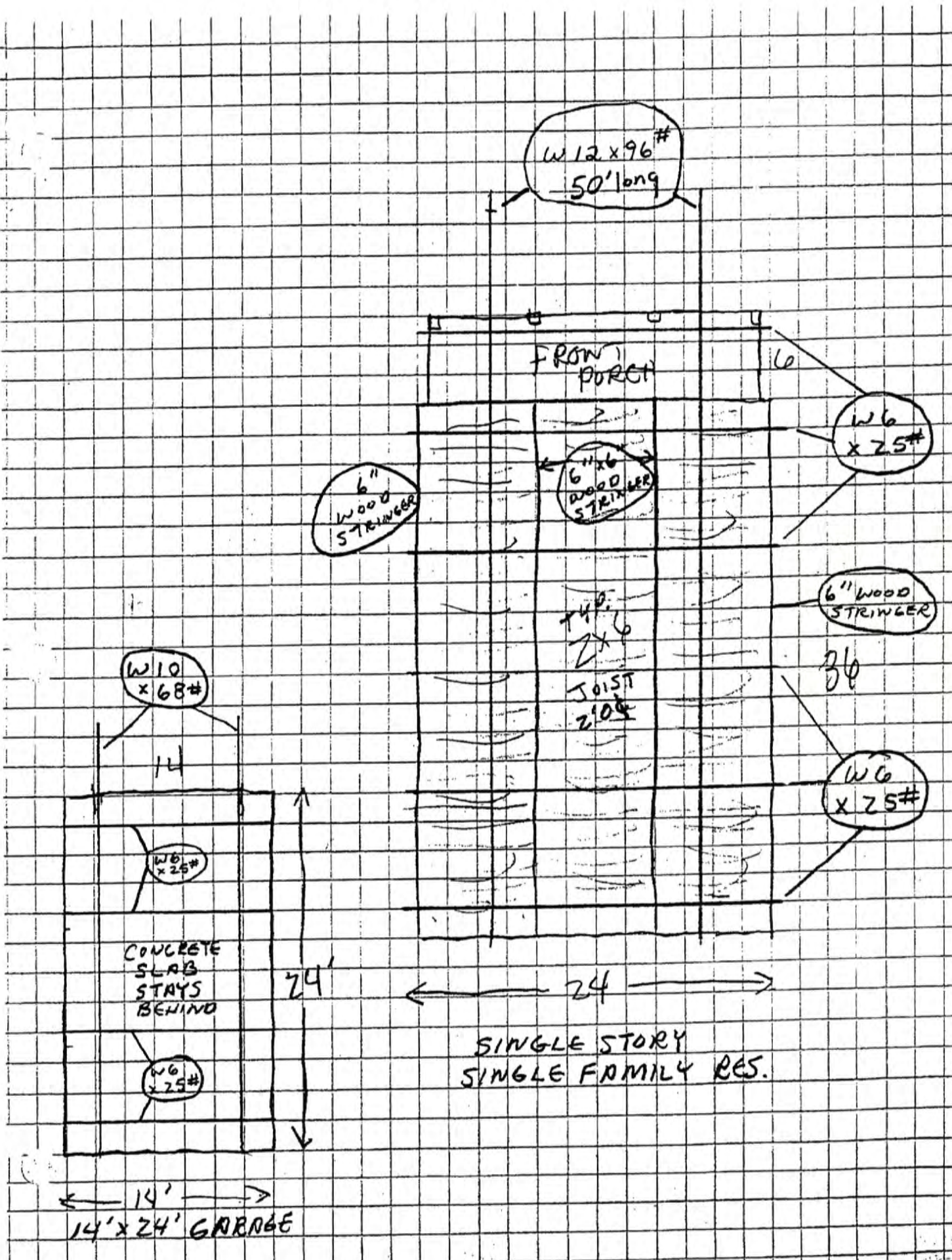


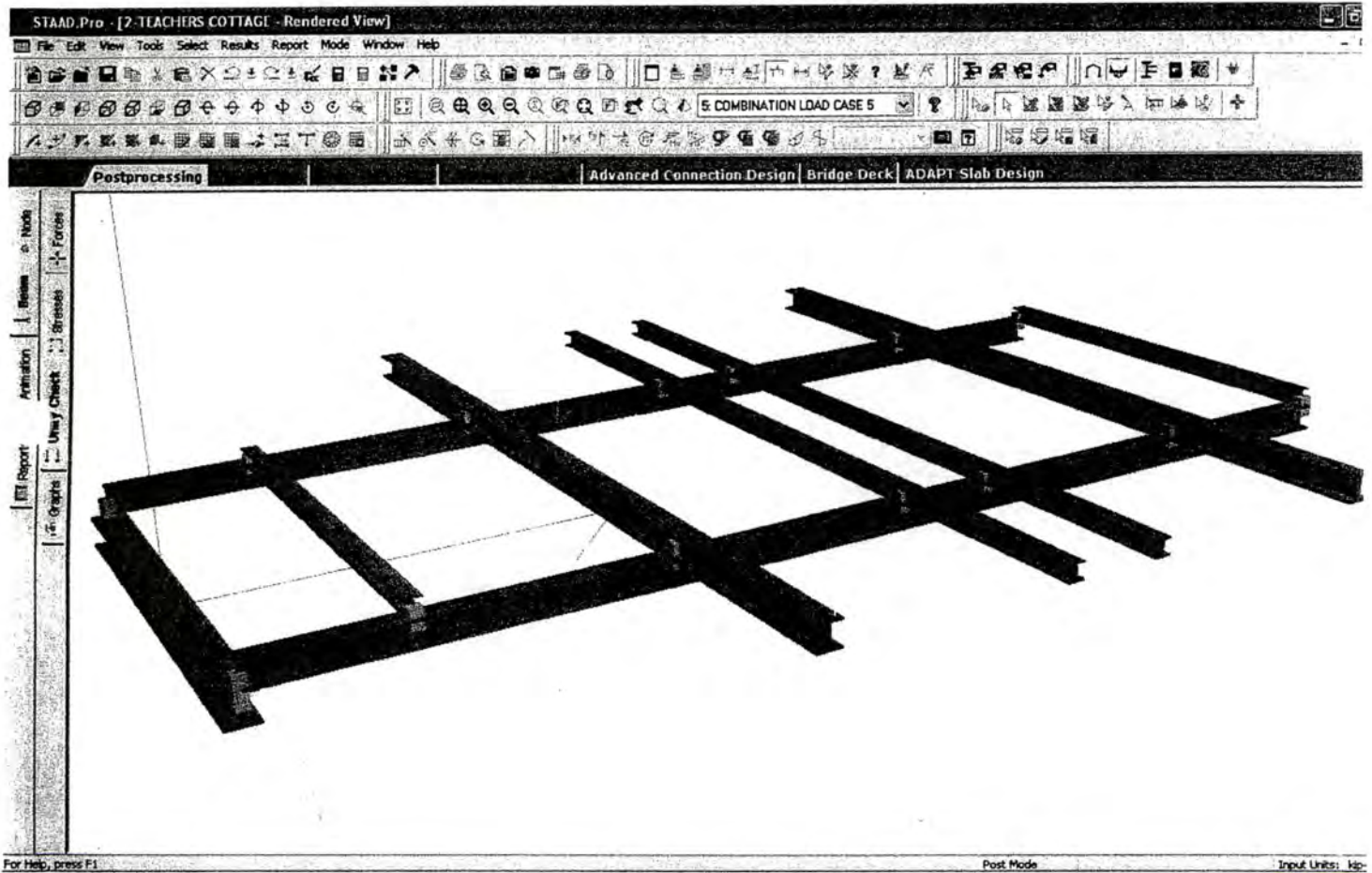




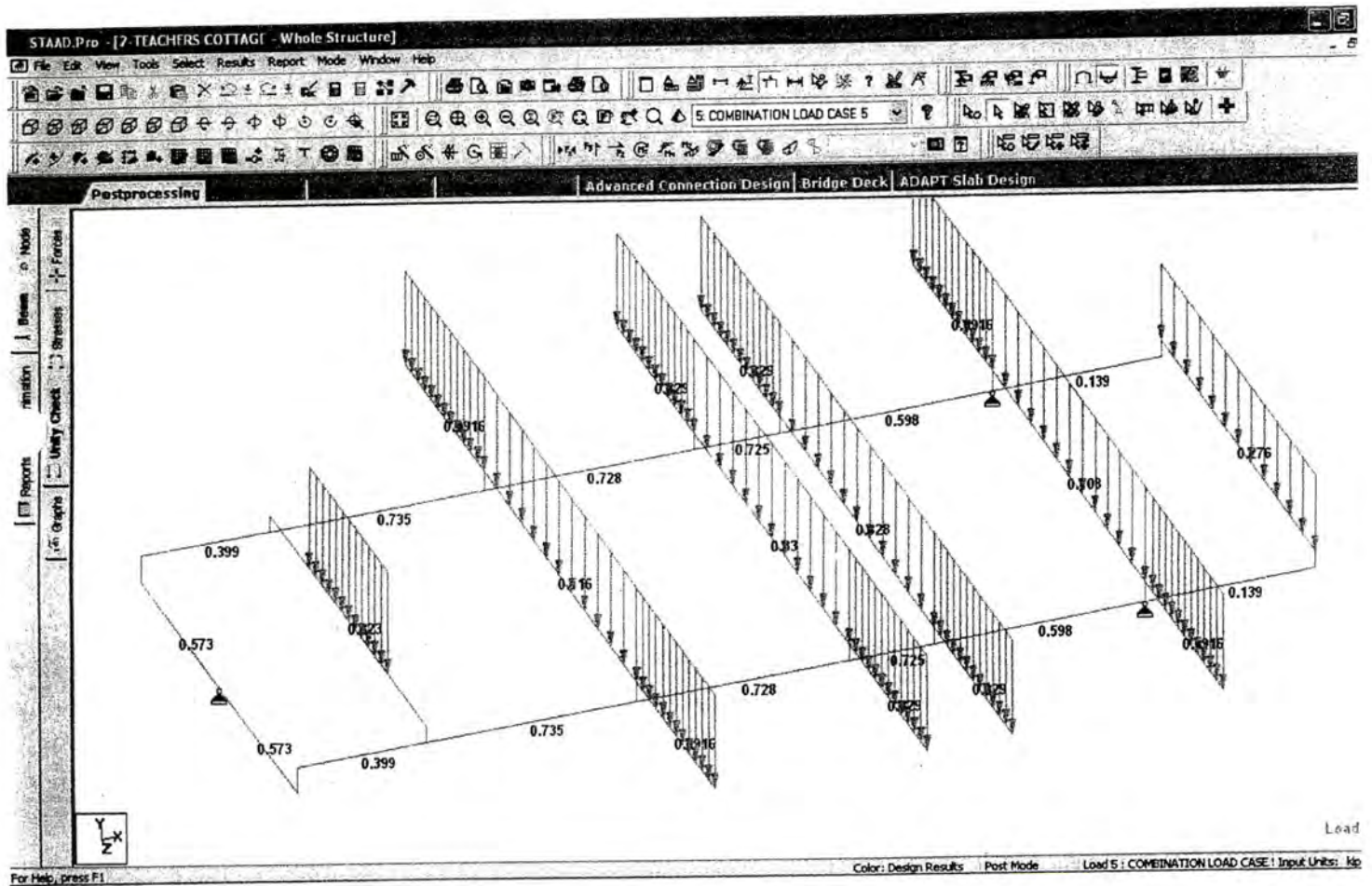








STAAD.Pro - [2 TEACHERS COTTAGE - Design Results -]													
File Edit View Tools Select Results Report Mode Window Help													
5 COMBINATION LOAD CASE 5													
Postprocessing Advanced Connection Design Bridge Deck ADAPT Slab Design													
All Failed Members													
Beam	Analysis Property	Design Property	Ratio	Ay in ²	Az in ²	Ax in ²	Dw in	Bf in	Iz in ⁴	Iy in ⁴	Ix in ⁴		
8	W12X96	W12X96	0.139	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
9	W12X96	W12X96	0.598	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
10	W12X96	W12X96	0.725	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
11	W12X96	W12X96	0.726	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
12	W12X96	W12X96	0.082	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
13	W12X96	W12X96	0.082	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
14	W6X40	W6X40	0.329	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
15	W6X40	W6X40	0.330	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
16	W6X40	W6X40	0.329	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
17	W6X40	W6X40	0.329	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
18	W6X40	W6X40	0.326	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
19	W6X40	W6X40	0.329	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
20	W12X96	W12X96	0.082	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
21	W12X96	W12X96	0.108	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
22	W12X96	W12X96	0.082	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
23	W6X40	W6X40	0.276	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
24	W6X40	W6X40	0.323	2.970	6.025	11.700	8.250	8.070	146.000	49.100	1.120		
25	W14X211	W14X211	0.573	15.406	32.863	62.000	15.720	15.800	2660.000	1030.000	44.800		
26	W14X211	W14X211	0.573	15.406	32.863	62.000	15.720	15.800	2660.000	1030.000	44.800		
27	W12X96	W12X96	0.399	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
28	W12X96	W12X96	0.399	6.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860		
29	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
30	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
31	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
32	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
33	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
34	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
35	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
36	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
37	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
38	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
39	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
40	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
41	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		
42	Prismatic Gen	Not designed	1.000	1.000	10.000	6.000	6.000	6.000	20000.000	20000.000	20000.000		



STAAD.Pro - 2-TEACHERS COTTAGE

File Edit View Tools Select Geometry Commands Analyze Mode Window Help

1: LOAD CASE 1

Modeling Postprocessing Steel Design Concrete Design Component Design Advanced Connection Design Bridge Deck ADAPT Slab Design

2-TEACHERS COTTAGE - Whole Structure

2-TEACHERS COTTAGE - Beams

Beam	Node A	Node B	Property Refn.	Mat
25	1	2	1	STEEL
27	6	2	1	STEEL
28	8	5	1	STEEL
29	2	1	4	STEEL
30	6	7	4	STEEL

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	W12x96	STEEL
2	W8x40	STEEL
3	W14x211	STEEL
4	Prismatic General	STEEL

☒ Highlight Assigned Geometry

Edt... Delete...

Values... Section Database Define...

Materials... Thickness... User Table...

Assignment Method

☒ Assign To Selected Beams ☐ Use Cursor To Assign

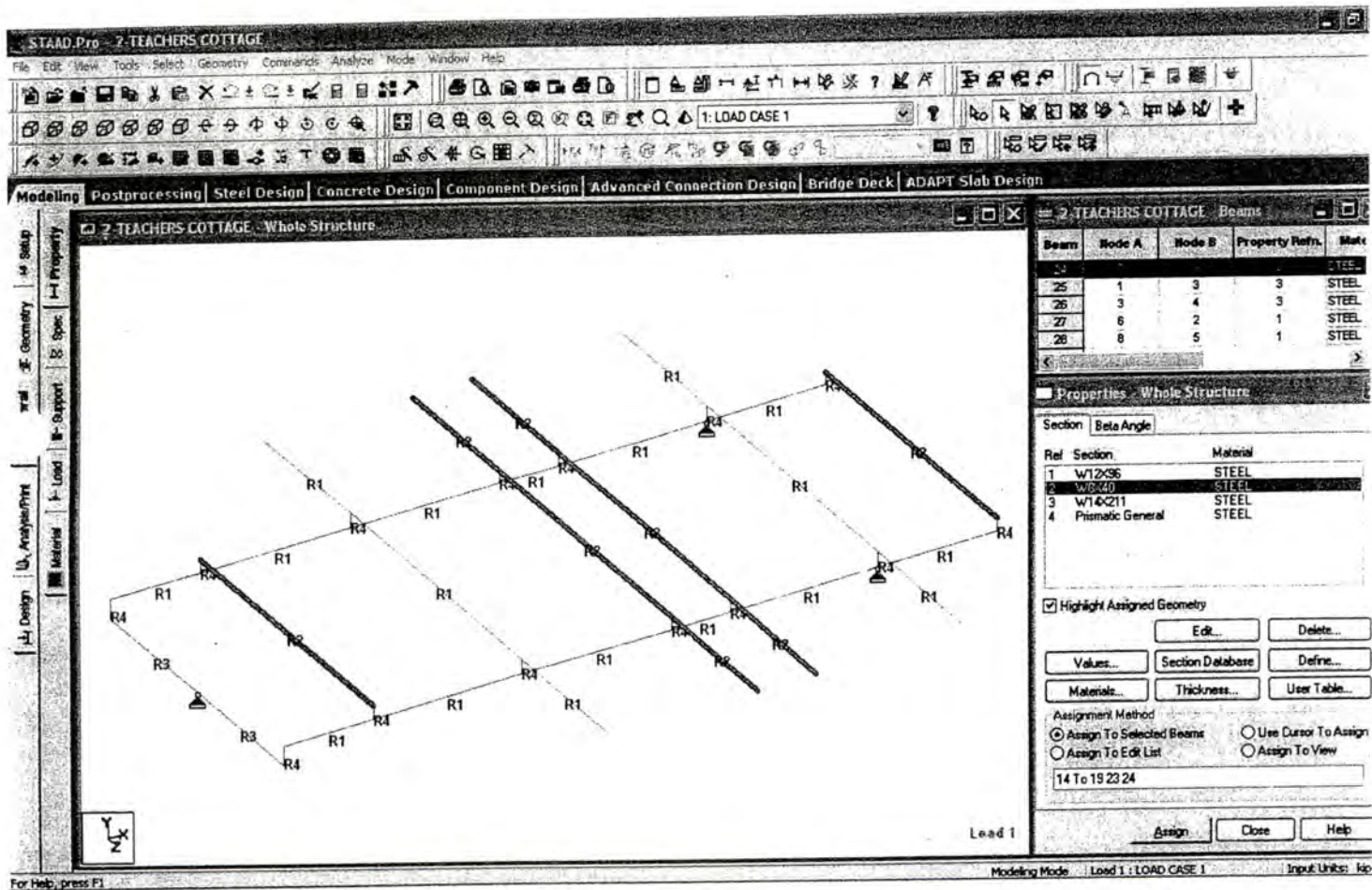
☐ Assign To Edit List ☐ Assign To View

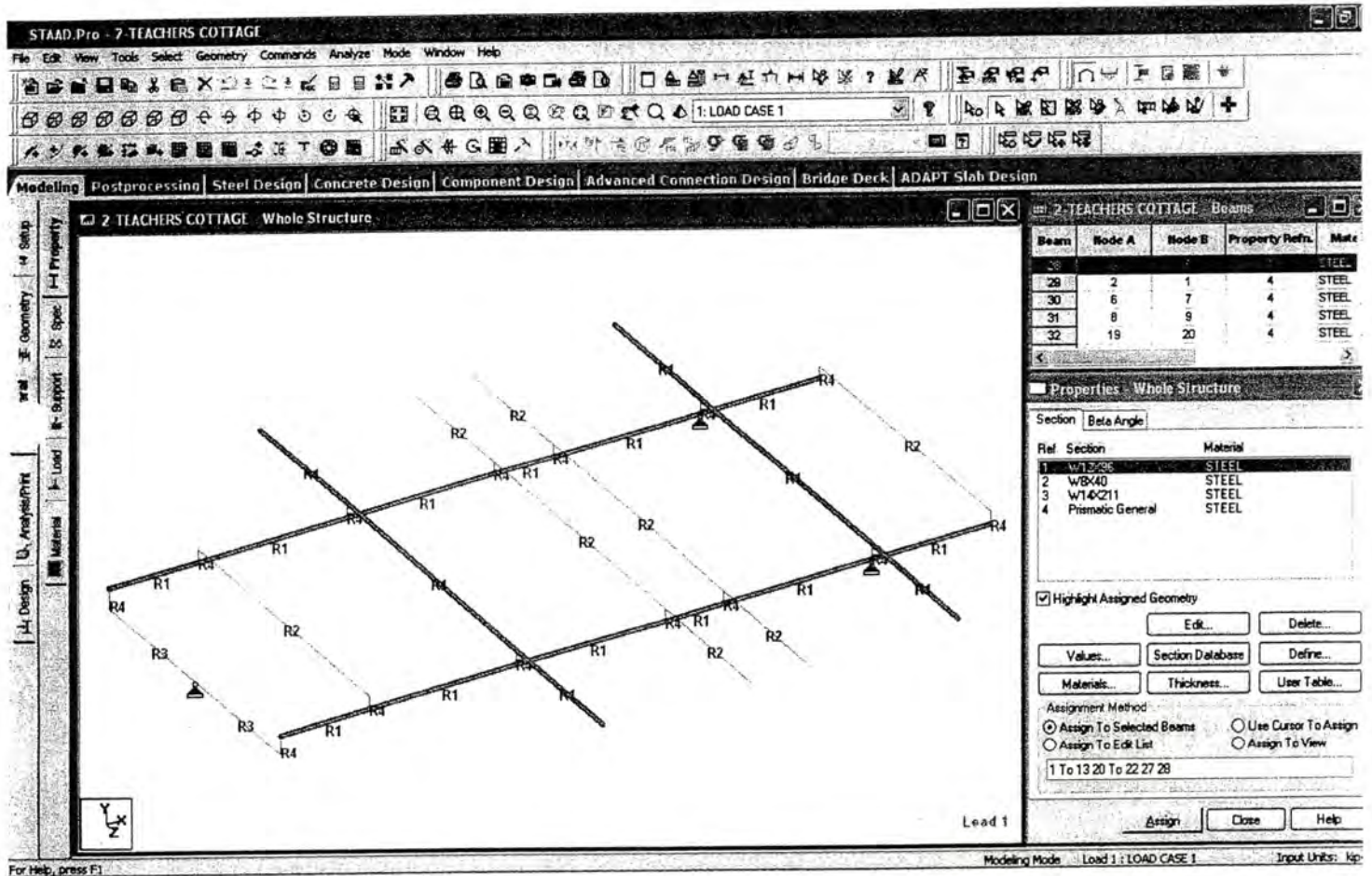
25 26

Assign Close Help

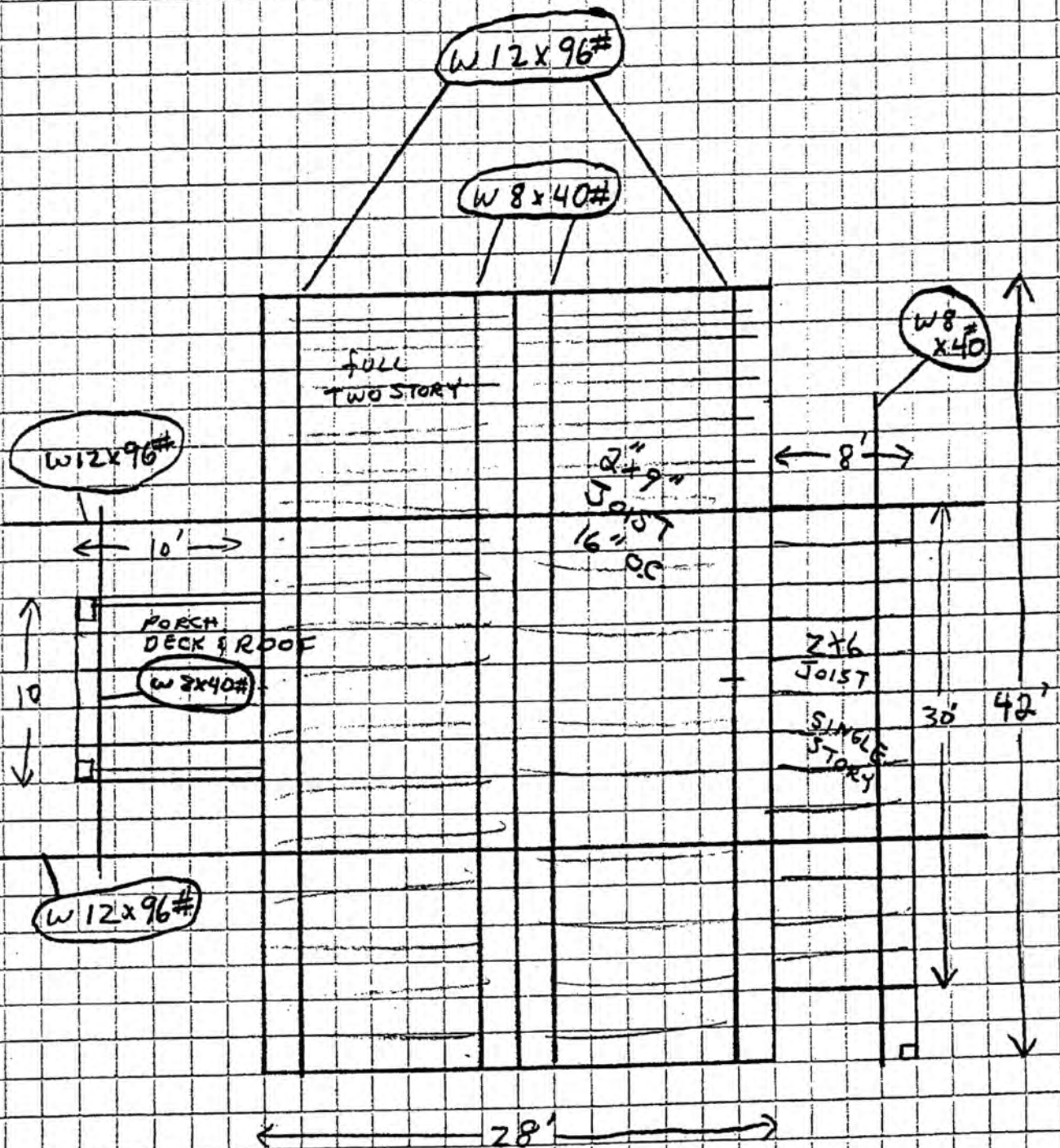
For Help, press F1

Modeling Mode Load 1: LOAD CASE 1 Input Units: kip-ft





TEACHERS COTTAGE



2 STORY SINGLE FAM.
RES.



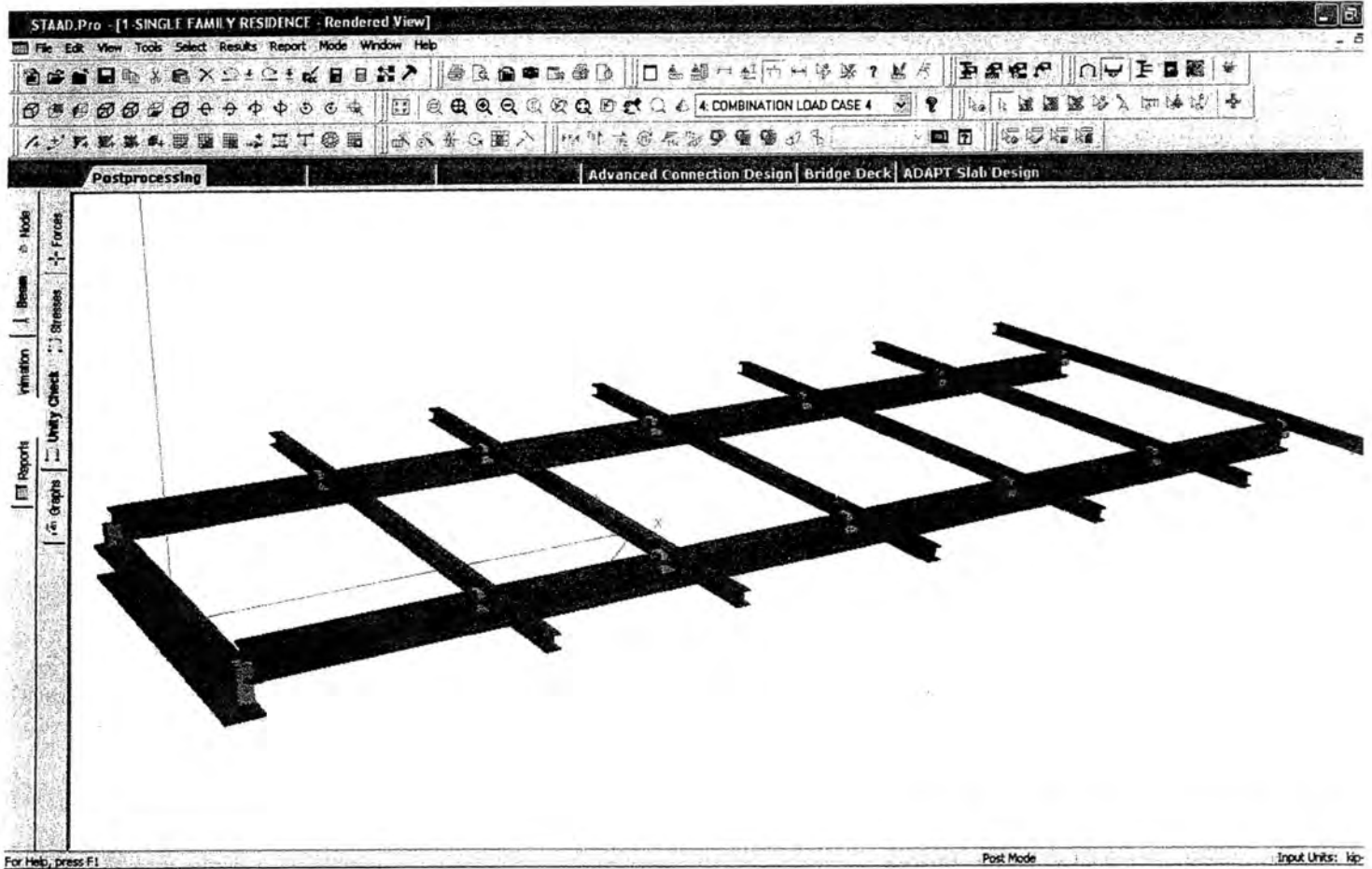
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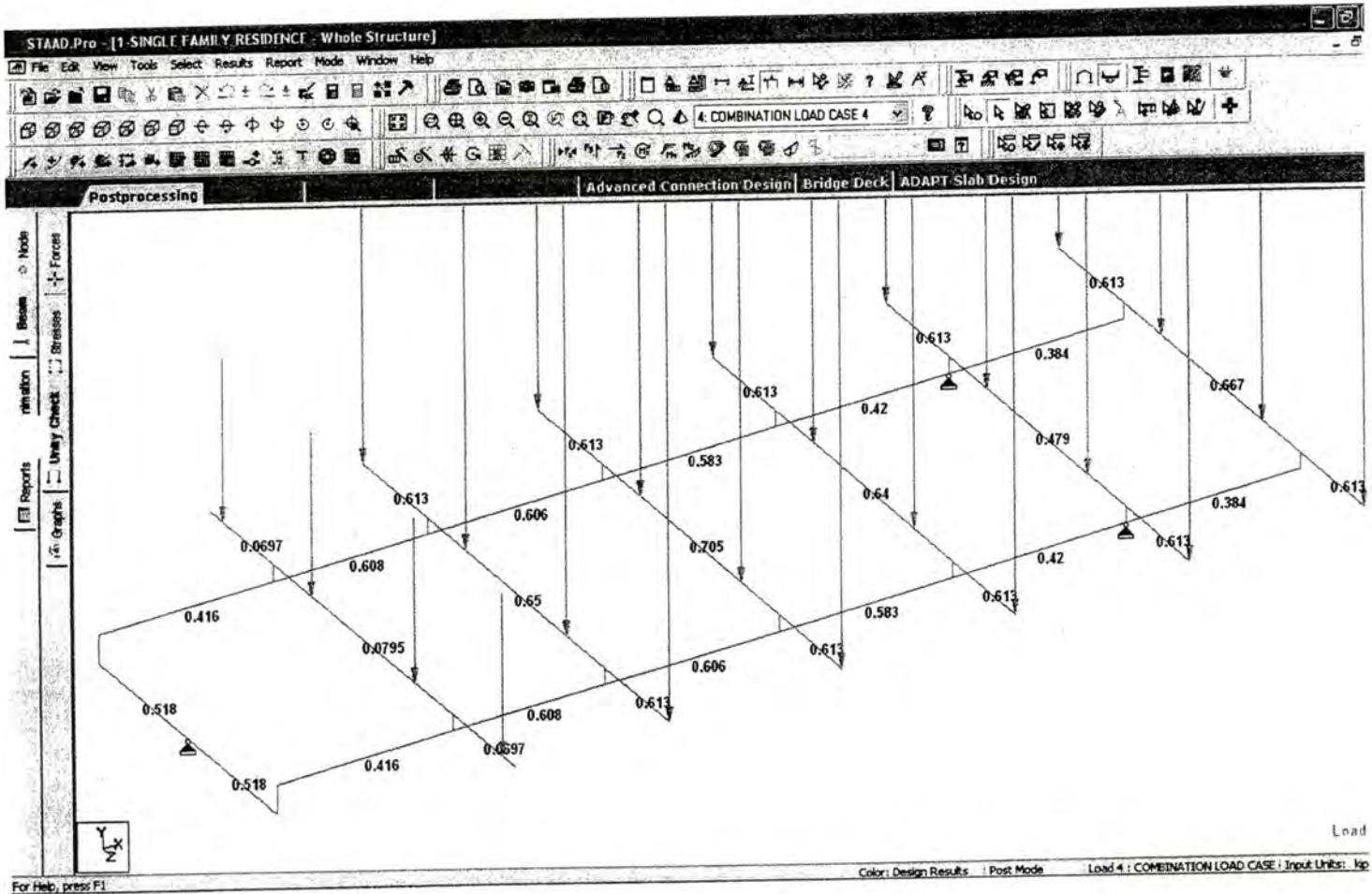
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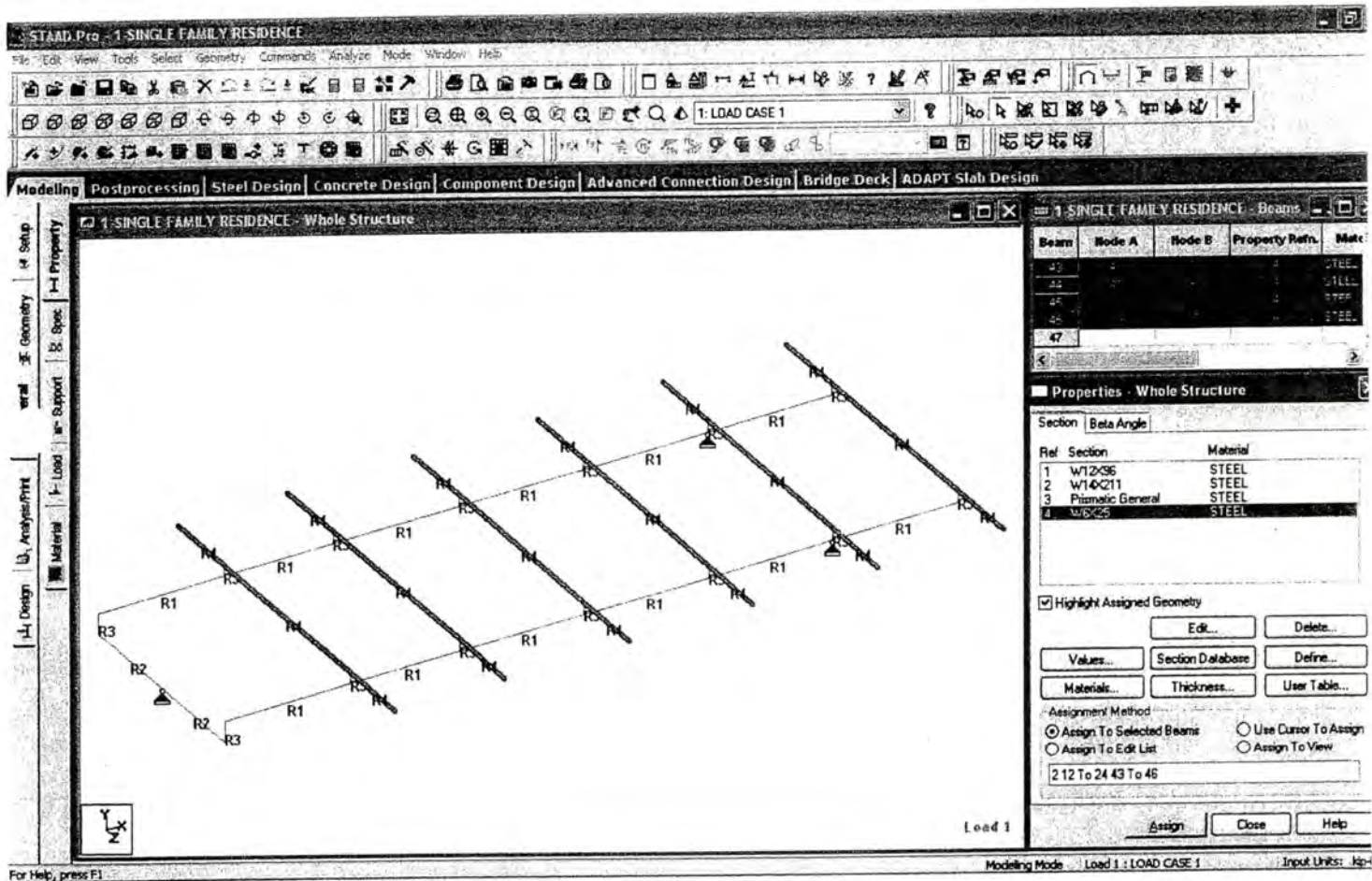
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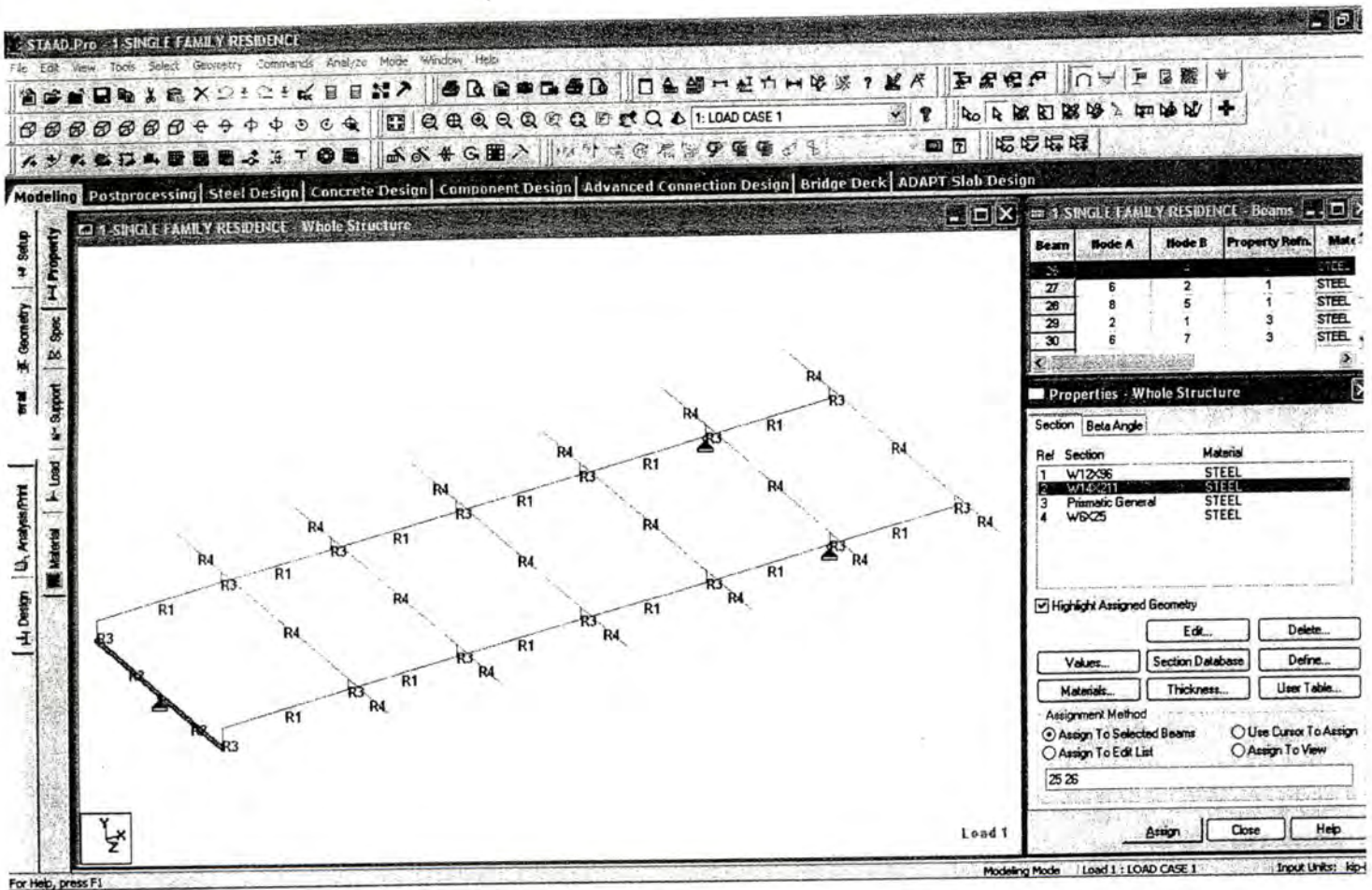
Bridge Deck ADAPT Slab Design

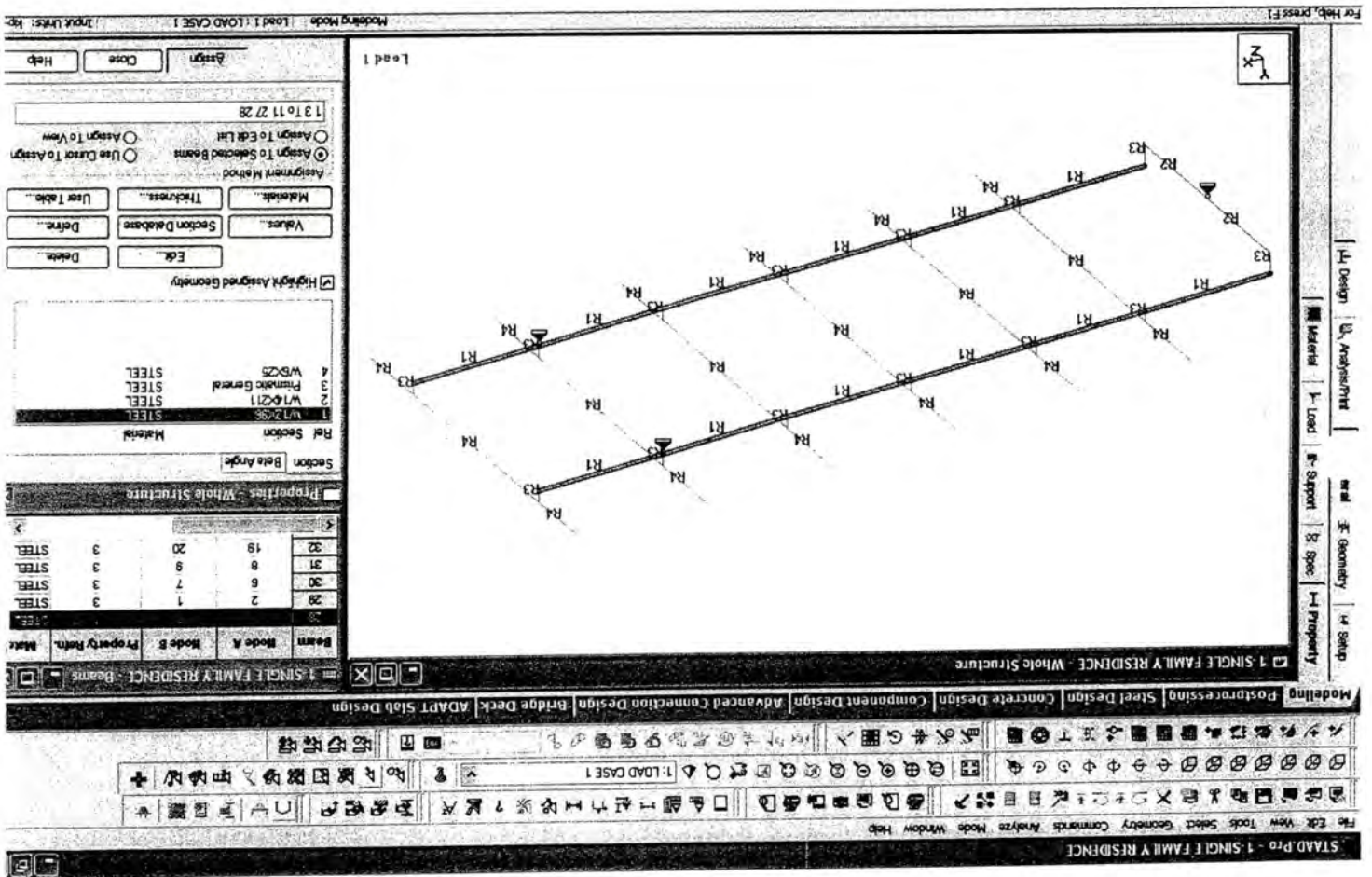
Beam	Analyze Property	Design Property	Ratio	AV in ²	AZ in ²	AX in ²	DW in	BT in	BZ in ⁴	BY in ⁴	BX in ⁴
12	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
13	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
14	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
15	W6X25	W6X25	0.705	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
16	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
17	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
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21	W6X25	W6X25	0.479	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
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27	W12X96	W12X96	0.416	8.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860
28	W12X96	W12X96	0.416	8.990	14.592	26.200	12.710	12.160	833.000	270.000	6.860
29	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
30	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
31	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
32	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
33	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
34	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
35	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
36	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
37	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
38	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
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42	Prismatic Open	Prismatic Open	Not designed	1.000	1.000	10.000	6.000	6.000	20000.000	20000.000	20000.000
43	W6X25	W6X25	0.070	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
44	W6X25	W6X25	0.070	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
45	W6X25	W6X25	0.613	2.042	3.698	7.340	6.390	6.090	53.400	17.100	0.460
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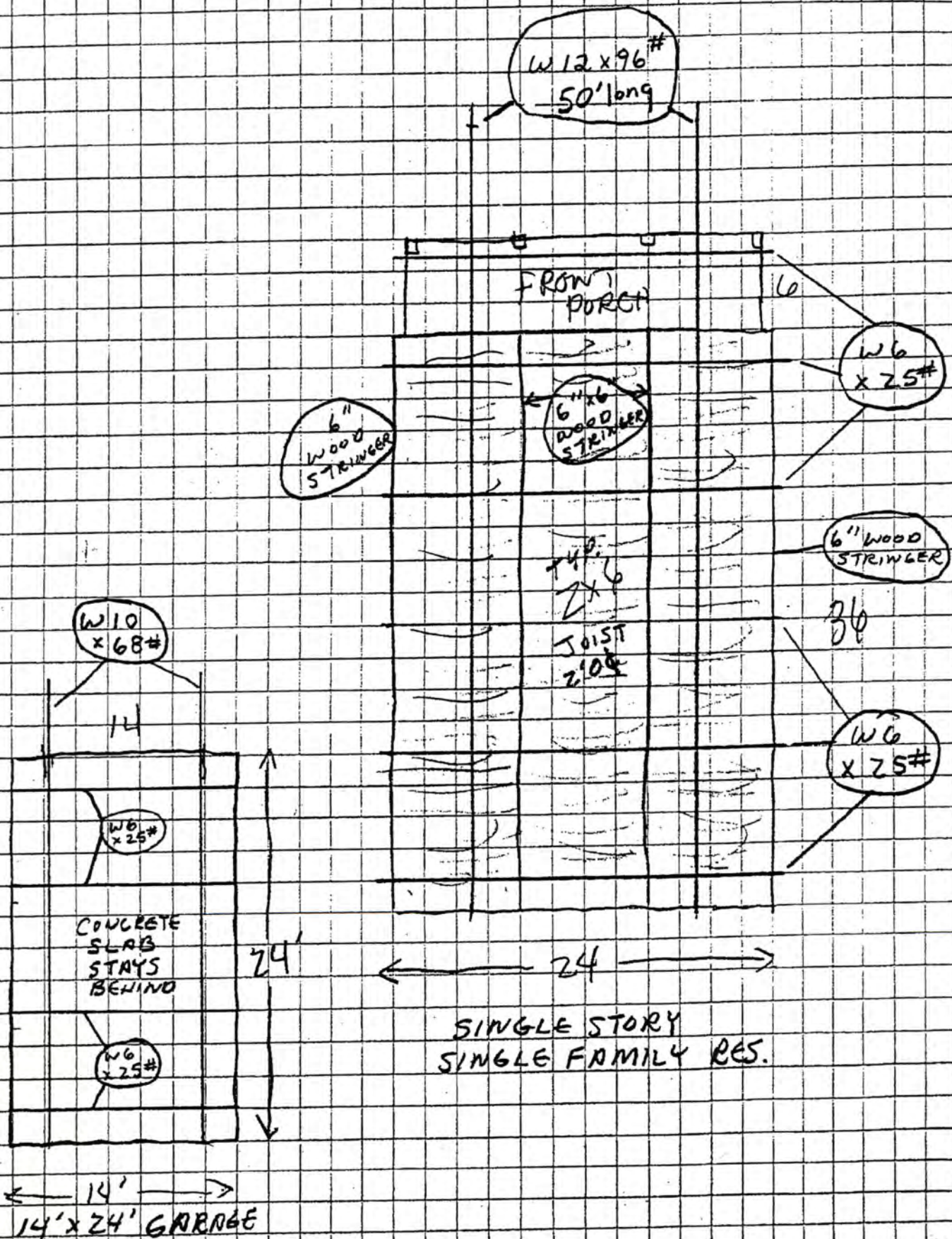












D.B. Davis, LLC.
House Moving & Raising Specialist
5 GENERATIONS SERVING THE INDUSTRY SINCE 1884
Contractors Registration # DBDAVBD962CO

Contractor Name, Address, Phone & Fax:

Business Name:	D.B. Davis, LLC.
Mailing Address:	11014 19 th Avenue S.E. PMB# 326
City, State & Zip:	Everett, WA 98208
Office Phone:	(425) 357-9989
Office Fax:	(425) 357-9989
E-Mail Address:	dbdavishousemoving@comcast.net

Primary Contacts & Phone Numbers:

Owner/Manager:	Dell Davis Cell # (425) 876-3845 Office (425) 357-9989
Owner/Manager:	Rose Davis Office (425) 357-9989
Operations:	Thomas Moore Cell # (425) 280-5012
Accounting/Billing:	Rose Davis Office (425) 357-9989 Cell # (425) 931-8982

Federal Tax Filing Status:

Limited Liability Corporation, (LLC)

Federal Employee Identification Number:

51-0493621

State of Washington UBI Number:

602-355-806

Department of Labor & Industries Account Number:

DBDAVBD962CO

D.B. Davis, LLC Safety Program

D. B. Davis, LLC.

SAFETY PROGRAM

D.B. Davis, LLC.
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5 GENERATIONS SERVING THE INDUSTRY SINCE 1884
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D. B. Davis, LLC.

SAFETY PROGRAM

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A) CODE OF SAFE PRACTICES

D. B. Davis believes that the personal safety and health of our employees is of primary importance. This policy is based on a sincere desire to eliminate personal injuries and to prevent damage to equipment and property. Compliance with all safety rules is considered a condition of employment.

Our policy is to accomplish work in the safest possible manner. Never shall safety be sacrificed for production. Field supervisors are held accountable for the safety performance of employees under their direction. However, the ultimate success of this safety program will depend upon your full cooperation and observance of these safety rules.

General

1. All persons shall follow these safe practice rules render every possible aid to safe operations, and report all unsafe conditions or practices to the foreman or superintendent.
2. Foremen shall insist on employees observing and obeying every rule, regulation, and order as necessary to the safe conduct of the work, and shall take such action as is necessary to obtain observance.
3. No new employee shall be put to work until he has been briefed on the safety condition of the particular job and instructed to read the company Code of Safe Practices.
4. All employees shall be given frequent accident prevention instructions.
5. Anyone known to be under the influence of drugs or intoxicating substances which impair the employee's ability to safely perform the assigned duties shall not be allowed on the job while in that condition.
6. Horseplay and other acts which tend to have an adverse influence on the safety or well-being of the employees shall be prohibited.
7. Work shall be well planned and supervised to prevent injuries in the handling of material and in working together with equipment.
8. No one shall knowingly be permitted or required to work while the employee's ability or alertness is so impaired by fatigue, illness or other causes that it might unnecessarily expose the employee or others to injury.
9. Employees shall not enter manholes, underground vaults, chambers, tanks, silos or other similar places that receive little ventilation unless it has been determined that it is safe to enter.
10. Employees shall be instructed to ensure that all guards and other protective devices are in proper places and adjusted, and shall report deficiencies promptly to the foreman or superintendent.

CODE OF SAFE PRACTICES (cont'd)

11. Crowding or pushing when boarding or leaving any vehicle or other conveyance shall be prohibited.
12. Workers shall not handle or tamper with any electrical equipment, machinery or air or water lines in a manner not within the scope of their duties, unless they have received instruction from their foreman.
13. All injuries shall be reported promptly to the foreman or superintendent so that arrangements can be made for medical or first aid treatment.
 - a. In the event of a serious accident a report shall be made at once by phoning to the office and an accident report delivered to the office that same day.
 - b. Any injury requiring hospitalization shall be reported to the office immediately.
14. When lifting heavy objects, the large muscles of the leg instead of the smaller muscles of the back shall be used.
15. Men shall wear proper clothing for construction work. The following items are considered hazardous to the individual's safety: cuffs on pants, thin soles on shoes, shoes with leather or slick finish composition soles, oxfords, ragged clothing, etc.
16. Materials, tools or other objects shall not be thrown from buildings or structures until proper precautions are taken to protect others from the falling objects.
17. Before releasing the binds on a loaded truck, be certain that the load will not shift once released. All materials must be properly stacked and secured by blocking, stacking, banding or other means to prevent rolling, tipping, sliding, falling or collapse.
18. Pile and unpile material carefully.
19. No workmen shall be allowed to work beneath any load suspended from a crane load line. The use of safety latches on crane hooks is required at all times. Do not ride the crane hook or ball.
20. No workmen shall intentionally make any safety device inoperative.
21. The foreman shall enforce the wearing of hard hats and safety belts and lines. Hard hats must be worn at all times.
22. Safety belts and lifelines shall be used by all workmen who are exposed to falling in excess of 7.5 feet. When the work is of short duration and limited exposure and the hazards involved in rigging and installing the safety devices required equals or exceeds the hazards involved in the actual work, these provisions may be temporarily suspended provided adequate risk control is recognized and

CODE OF SAFE PRACTICES (cont'd)

maintained under immediate, competent supervision. When working at the perimeter of a building where the fall distance exceeds 25 feet, workers shall be tied off to either peripheral columns, pendant lines secured to the tops of peripheral columns, cantenary lines, other secure anchorage points.

23. Do not walk the top flanges of beams. Workers are to coon beams at all times.
24. Containers provided for bolts, fasteners, drift pints, etc. shall be tied off when aloft.
25. Temporary or permanent floors shall be maintained within two floors of the raising crew at all times.
26. Life lines shall be used when required, such as on steep roof sheeting and high bay work when the rigging of nets is impractical.
27. No conductive rigging may be used within 6 feet of low voltage lines. If the voltage is extremely high as in electric foundry equipment or main transmission lines where the magnetic field is greater, then the foreman shall request special instructions from the power company as to the extent of the dangerous portion of the magnetic field.
28. Tops of ladders shall be "tied off" at all times and workmen will not work "over the side" on ladders.
29. Bases of all ladders shall have rubber feet in good working order and distance from base of ladder to base of support or vehicle line from support should not exceed one-fourth the length of the ladder.
30. Softeners shall be used on sharp edges to prevent cutting of slings.
31. Do not undersize wire rope for making lifts.
32. Tag lines are to used on all members for controlling motion and guiding to position.
33. Tag line operators will stand clear of steel at all times.
34. Workmen working with moving steel will work at extreme ends of steel, clear enough so that should steel jump, drop or swing, you will be in no danger.
35. Never work in an area where you may be pinned between moving steel and fixed objects.
36. Never walk under loads.
37. Shake out hooks and clamps are to be used for unloading and shake out work only.
38. When moving steel, keep it as close to the ground as practical.

CODE OF SAFE PRACTICES (cont'd)

39. Never wrap lines around hand or body.
40. Workmen will use safety equipment as it is intended and will consult their foremen should they not understand it.
41. Employees shall cleanse thoroughly after handling hazardous substances and follow special instructions from authorized sources.
42. Work shall be so arranged that employees are able to face ladder and use both hands while climbing.
43. Gasoline shall not be used for cleaning purposes.
44. No burning, welding or other source of ignition shall be applied to any enclosed tank or vessel, even if there are some openings, until it has first been determined that no possibility of explosion exists and authority for the work is obtained from the foreman or superintendent.

Welding and burning operations:

- the immediate area must be inspected to insure that sparks or molten metal will not fall on combustible materials or other workers.
 - suitable fire extinguishing equipment must be readily available at the work area.
 - always consider a cylinder as full and handle it accordingly.
 - all cylinders are to be placed in carts or tied off in a vertical position.
 - empty cylinders are to be removed from work area and returned to rack.
45. Any damage to scaffolds, falsework or other supporting structures must be immediately reported to the foreman and repaired before use.

Use of Tools and Equipment

46. All tools and equipment shall be maintained in good condition.
47. Damaged tools or equipment shall be removed from service and tagged "defective".
48. Pipe or Stillson Wrenches shall not be used as a substitute for other wrenches.
49. Only appropriate tools shall be used for the job.
50. Wrenches shall not be altered by the addition of handle-extensions or "cheaters".
51. Files shall not be equipped with handles and not used to punch or pry.

CODE OF SAFE PRACTICES (cont'd)

- 52. A screwdriver shall not be used as a chisel.
- 53. Portable electric tools shall not be lifted or lowered by means of the power cord. Ropes shall be used.
- 54. Electric cords shall not be exposed to damage from vehicles.
- 55. In locations where the use of a portable power tool is difficult, the tool shall be supported by means of a rope or similar support of adequate strength.
- 56. No worker shall be permitted to use power equipment unless he thoroughly understands the operation and use of such equipment.
- 57. Do not repair or adjust machinery while it is in operation. Never oil moving parts except on equipment fitted with safeguards for this purpose. Never work under vehicles that are supported by jacks or chain hoists without protective blocking in case of hose or jack failure. **Do not disconnect air hoses or compressors until hose line has been bled. Never turn compressed air on yourself or anyone!**

Machinery and Vehicles

- 58. Company trucks/automobiles: an employee is prohibited from operating any company vehicle unless he has a valid Washington driver's license in his possession and is specifically authorized to operate that vehicle.
- 59. Loose or layered clothing, long hair, dangling ties, finer rings, etc. shall not be worn around moving machinery or other sources of entanglement.
- 60. Machinery shall not be serviced, repaired or adjusted while in operation, nor shall oiling of moving parts be attempted except on equipment that is designed or fitted with safeguards to protect the person performing the work.
- 61. Job injuries and sickness: first aid boxes are available. do not move an injured person unless it is necessary to do so in order to prevent further injury. There are two instances when speed is necessary: (1) severe bleeding; and (2) artificial respiration. Do not attempt to remove foreign particles from your eye or from the eye or body of another person. Get qualified treatment from a doctor.

B) SAFETY INSPECTION/AUDITS

Purpose

To provide a method whereby job sites can be consistently audited.

Objectives

1. To provide written documentation of site safety visits.
2. To improve consistency in site audits.
3. To provide information on safety compliance of employees.
4. To identify hazardous condition prior to an accident.
5. To establish correction for any unsafe or unhealthy conditions and work practices with the most hazardous exposures given priority.

Method

The audit method will utilize the random sampling technique. The safety department will conduct periodic safety inspections. The representative will take an OSHA inspection approach, targeting high hazard areas or jobs with above average accident rates. This will be done no less than two times each year.

Format

The Safety Representative and/or Supervisor will complete the attached audit form as written documentation of the audit. At the top of the form, in the space provided, the location, date, Supervisor's name, appropriate number of employees on the site and the Auditor's name will be recorded.

All audits will be completed while AT the job site. One copy will be filled by the Safety Department, one copy will be given to the job Supervisor and one copy will be forwarded to the company manager.

C) ACCIDENT REPORTING PROCEDURES

Purpose

To establish procedures for reporting injuries and illnesses.

Scope

Should an injury/illness occur, it is of utmost importance that these procedures are followed. The Foreman or the designated representative is responsible for evaluating and obtaining prompt medical care, if needed.

General Procedures

1. The Safety Department has pre-arranged medical facilities to treat injured employees. Please refer injured employee to a designated medical facility nearest to your job site.
2. On all out of town jobs it will be the responsibility of the Safety Coordinator to notify the Safety Department to ensure that a medical facility has been arranged.
3. On all industrial injuries/illnesses, the Superintendent or Foreman will show concern for the injured employee's well being.
4. After evaluating the situation and the injured employee is either stable or receiving medical treatment, notify the Safety Department immediately:

Safety Manager:

Dell Davis

5. It is the responsibility of the Job Foreman to assign an employee, for each shift, the task of notifying a member of the Safety Department of any industrial injury after Office Business hours that requires emergency medical assistance.
6. On weekends and/or where we have more than one shift working, such as swing or graveyard, the Foreman shall on the subsequent days check with the proper personnel regarding possible industrial injuries/illnesses that may have occurred.

Minor Injuries/Illnesses

Treatment covers such injuries/illnesses as superficial lacerations or a first degree burn. The purpose is to prevent infection, make the injured comfortable and permit the employee to return to work immediately.

1. First Aid treatment should be administered at the job site by one of our trained personnel whenever possible. If the injury/illness is beyond the skills of our responder, transport the employee to the designated medical facility.

ACCIDENT REPORTING PROCEDURES (cont'd)

2. If the employee's injuries are not life threatening, the Superintendent or Job Foreman will transport the employee to the designated medical facility.
 - A. Under no circumstances should medical treatment be denied if employee requests treatment.

Note - Do not allow the employee to transport themselves to the medical facility. If arrangement cannot be made at the job site contact the D.B. Davis, Safety Department at the Office for transportation. Injured employee must be transported by a Company Representative. Do not send injured employee in a taxi or with a customer representative.

Serious Injuries/Illnesses

This covers preparation of a seriously injured person for a trip to the clinic or hospital. It is both unnecessary and unwise to attempt to begin extensive treatment without competent medical service.

Removal of a person from a dangerous area, administration of artificial respiration (if properly trained), water flushing of burns and prevention of shock are necessary and correct procedures. Therapeutic measures for seriously injured persons should be administered by a physician only.

Important - All injuries/illnesses must be reported immediately to the proper personnel at the office. If the injury/illness occurs on the job but symptoms are not noticed until the employee is at home, you must offer medical treatment. Never under any circumstances would you deny an employee medical treatment.

1. In the event of an injury/illness the responsible party will evaluate the situation and notify the proper personnel if emergency response is needed i.e. Paramedics, Fire Department, Ambulance, Police, Plant Assistance, etc.
 - A. The caller should report the following information:
 - The nature of injury/illness
 - The exact location of the emergency
 - What equipment is needed
2. If the injuries/illness appears life threatening, defer to the Paramedics the selection of a medical facility.
3. In case of death or serious injury, you must notify a D.B. Davis, LLC company representative and the Safety Manager immediately.

ACCIDENT REPORTING PROCEDURES (cont'd)

Appropriate Forms

1. When an injury occurs, send the employee to the nearest medical facility for treatment, along with the medical introduction slip with the name of the employee and the name of the company.
2. Complete the "Supervisors Accident Investigation Report". Each section must be filled out in full.
3. Have the employee or his /her representative complete the "Employee's Claim For Workers compensation Benefits" top section.
4. Send the accident report, employee's claim forms and any doctor's status report to the office within 24 hours of the accident.
5. A doctor's release must be obtained prior to an employee return for work.

If an injury involves days away from work or hospitalization, notify your immediate Supervisor who will, in turn, advise the safety office.

D) VEHICLE ACCIDENT REPORT

Purpose

To provide a permanent record of the incident, insure a complete investigation to prevent recurrence.

Procedure

1. This report form shall be used whenever motor vehicle, motorized equipment, or any attached equipment is involved in an accident resulting in property damage and/or injury.
2. All vehicle accidents shall be reported to the company department head within 24 hours of the incident.
3. The form shall be filled out by the operator.
4. A Supervisors Accident Investigation Report shall be completed by the supervisor. When an employee is injured refer to the injury reporting procedure.
5. All completed forms shall be forwarded to the safety office.

E) ORIENTATION TRAINING

Purpose

To identify and assume that each employee is informed and aware of basic Company and Client work rules and general safety instructions.

Scope

Each employee shall complete the orientation process prior to initial assignment to a work site. This program will be repeated as needed.

Material

The following subjects are to be covered during the orientation process. Material will be covered by a combination of lecture and video tape methods. Subjects to be covered but not limited to as follows:

- Review Company Safety and Work Rules
- Hazard Communication Standard
 - Material Safety Data Sheets (MSDS)
 - Employee Right to Know
- Hearing Conservation
 - Hearing Protection
- Confined Space
 - Define Confined Space
 - Permit System
 - Safety Standby
- Asbestos Awareness
- Benzene Awareness
- Respiratory Protection
- General Safety
 - Specific Site Safety Rules

F) JOB SITE SAFETY/TRAINING MEETINGS

Purpose

To outline a method for the continual safety training of employees in general and specific hazards unique to the employees' job assignment.

Procedure

1. Periodically the Safety Department will put together a 15 to 30 minute program on a safety topic.
2. Each topic will relate to a general or specific safety hazard unique to our employees' job assignment.
3. Each topic will consist of an introduction, discussion, handouts and "hands-on" training when applicable (i.e., forklift, respirator, etc.).
4. It will be the supervisor's responsibility to:
 - a. Contact the Safety Department and coordinate a program training schedule.
5. It will be the Safety Department or supervisor's responsibility to:
 - b. Take attendance and forward it to the Safety Department for documentation.
 - c. Present the program, distribute handouts and answer any questions.

G) TAILGATE/SAFETY MEETINGS

Purpose

To specify the method of conducting and documenting regularly scheduled Tailgate/Safety Meetings.

Scope

This procedure will apply to all D. B. Davis Employees.

Procedure

1. Tailgate Meetings will be held by the Supervisor/Field Representative weekly or as designated by the client.
2. The Safety Department will supply safety topics to be used by the Supervisor/Field Representative.
3. At sites with supervisors, the Tailgate Meetings will be held by the Supervisor or designated employee with all employees signing the safety meeting documentation form. The completed form is to be forwarded to the Safety Department for documentation purposes.
4. Tailgate Meetings, without supervisor, will be held by the leadman or operators with all attendees signing the safety meeting form.
5. The completed form will be forwarded to the safety department.

H) SAFETY COORDINATOR AND SUPERVISOR SAFETY TRAINING

Purpose

Recognizing that safety coordinators and supervisor's expertise in safety is paramount to implementing and maintaining an effective safety program. This procedure will outline the specifics of this safety training.

Procedure

1. This procedure applies to all supervision working for the D. B. Davis
2. Supervisors will be trained in the safety and health hazards in which the employees under their immediate direction and control may be exposed.
3. Supervisors will be trained whenever new substances, processes, procedures or equipment are introduced to the workplace and present new hazards.
4. Meetings will consist of a review of any recent accidents/incidents and safety inspections/audits.
5. It is the responsibility of the safety coordinators and supervisors to disburse information to the employees under direction.
6. Attendance will be taken at each meeting with documentation on file for OSHA.

I) SAFETY SUGGESTION PROGRAM

Purpose

Provide a method to solicit safety related information and suggestions from employees.

Procedure

1. Safety Suggestion Boxes are placed at the main office, division offices and all permanent field offices.
 - The boxes are secured with a lock and shall be accessible only to the Safety Department.
 - The boxes shall be checked at least weekly for material by the Safety Department.
2. Employee Safety Information Forms shall be readily available at the main office, division office and all field offices.
3. Employees are advised that use of this form or other reports of unsafe practices are protected by law. It would be illegal for the employer to take any action against an employee in reprisal for exercising rights to participate in communications involving safety.
4. The Safety Department will investigate any report of question as required by the "Injury and Illness Prevention Program" and advise the employee who provided the information or the workers in he are of the employer's response.
5. Employees who observe a life threatening or serious unsafe condition or practice should report it to his/her supervisor or notify the Safety Department at (206) 712-9700

K) SAFETY WARNING LETTERS

Purpose

1. To provide written documentation of violations of D. B. Davis Policy.
2. If the violation or unsafe act is one which has been identified as "resulting in termination of employment", then termination will take place.

Procedure

1. It is the sole responsibility of the supervisor to take proper action when a violation occurs. This includes the appropriate disciplinary action.
 - A. Verbal Warning
 - B. Safety Warning Letter
 - C. Recommendation for Days Off/Termination
2. If the violation or unsafe act is one which has been identified as "resulting in termination of employment", then termination will take place.
3. For the first violation of other safety rules or performing an unsafe act, a Safety Conference will take place with the employee, the employee's Foreman, and the Job superintendent. A verbal warning will be issued. Time, date, and violation shall be noted by the supervisor.
4. For the second violation of a safety rule or the performance of an unsafe act, a First Written Warning will be issued and signed by the employee, Foreman and Job Superintendent.
5. If a problem with safety violations or unsafe acts continues, a Second Written Warning will be issued and a reprimand up to and including termination will occur.
6. Copies of the Safety Warning letter will be distributed as follows:
 - A. To Employee
 - B. To Safety Office for employee file
 - C. To Superintendent (or designated employee)

L) DRUG POLICY

Policy Statement

It is the right and intent of D. B. Davis, to maintain a safe, healthful and efficient working environment for all of its employees and to protect Company property, equipment and operations. With these basic objectives in mind, the Company has established this Drug Policy.

This policy applies to all employees not covered by a previously negotiated bargaining agreement. Employees not in a safety sensitive position will not be subject to pre-employment or random testing. The designation of these positions will be determined by management.

Definitions

Drug - As used in this statement, "drug" or "drugs" means and includes alcohol and any controlled substance and any other substance, the possession or use of which is a crime under federal law or the law of the state where employment hereunder is located. Drug or drugs does not include prescription medicines utilized as prescribed.

Employee Conduct

Condition at Work - All employees of the company are expected to be drug-free and drug metabolite free at all times when working within the course and scope of employment.

Illegal Drugs - The possession of illegal drugs while on Company business or on Company property, or on the property of any customer of the company is prohibited. Violation of this rule will result in disciplinary action.

No employee shall bring drug paraphernalia onto company property or into Company vehicles, or onto the property of any customer of the company. Drug paraphernalia includes pipes, bongs, rolling papers and other items used in the ingestion or consumption of drugs.

The use of prescribed medicines utilized as prescribed is permitted. The employee requiring medication must notify his supervisor prior to beginning work of the prescribed medicines.

Alcohol - No alcoholic beverages may be brought onto or consumed on Company property or on the property of any customer of the Company. Violation of this rule can result in disciplinary action.

DRUG POLICY (cont'd)

Alcohol/Drug Screening Instances

Pre-employment - Prior to employment with the Company, all prospective employees will be required to pass an alcohol/drug screen test administered by a medical facility designated by the Company.

Reasonable Cause - During employment with the Company, each employee may be required to pass a drug test if the employee's supervisor has reasonable cause to believe the employee is under the influence of any drug. A supervisor may remove the employee from duties pending the test if, in the opinion of the supervisor, the employee's physical condition or behavior poses an immediate safety problem.

Post Incident - An employee involved in an incident affecting a person or property while performing his job is subject to testing.

Random - Employees in safety sensitive positions will be randomly tested in accordance with D.O.T. regulations.

Disciplinary Action

Any prospective employee refusing to submit to an examination will not be hired by the Company. Any employee who refuses to be tested shall be terminated. Any employee who tests positive is subject to immediate termination.

=====

This acknowledges that I have received, read, understand and agree to the D. B. Davis, Drug Abuse Policy.

My signature below indicates my agreement to all stated provisions of said policy and I understand that I must pass a pre-employment drug screen as a part of my application for employment.

Signature

Social Security Number

Print Name

Date

M) EMERGENCY EVACUATION PROCEDURES

Purpose

To establish a method where by in the event of an emergency requiring evacuation employees shall report to a "predesignated location" at the jobsite.

Applicability

D.B. Davis, LLC. employees may follow customer's plant site Emergency Evacuation Procedures provided D.B. Davis, LLC. employees are trained in their procedures.

Format

1. Clients of D.B. Davis, LLC. have established emergency evacuation plans which include the evacuation of the company's employees (contractor personnel). Recognizing that each client will use a different emergency signal, all clear signal, and predesignated location, this procedure will detail the responsibility of D.B. Davis, LLC. supervisor in notifying the D.B. Davis, LLC. employees of evacuation procedures.
2. In the event of an emergency requiring evacuation, all employees will report to a "predesignated location", per the facility evacuation instruction.
3. All employees shall go to the predesignated location and report to their supervisor to be accounted for.

Responsibility

1. On-site supervisor personnel are directly responsible to ensure that evacuations are carried out in accordance with the facility evacuation instruction.
2. Employees will not return to their work location until the "all clear" is given, per the facility evacuation instruction.
3. All employees shall know and understand the evacuation procedures.
4. Supervisors are responsible for the evacuation of all affected employees when a previously unknown hazard is discovered and observed. Employees are not to return to the area until the hazard is removed or corrected.

N) EMPLOYEE ACCESS TO EXPOSURE/MEDICAL RECORDS

Purpose

The purpose of this procedure is to specify the requirements and methods for compliance, of the Code of Federal Regulations, Title 29, Chapter XVII, Section 1910.20. "Access to Employee Exposure and Medical Records".

Scope

This procedure will apply to all employees of D. B. Davis

General

1. Whenever an employee or designated representative requests access to an exposure or medical record, D. B. Davis will assure that access is provided in a reasonable time, place and manner, but in no event later than fifteen (15) days after the request is made.
2. Access will be provided within the specified time period by:
 - a. Providing a copy of the record without cost to the employee or representative, or;
 - b. Making available the necessary mechanical copying facilities without cost to the employee or representative for copying the record.
3. All requests for exposure or medical records must be made in writing. Requests for medical or exposure records are to be filed with the Safety Department.

Exposure Records Access

1. D. B. Davis will, upon request, provide access to each employee or designated representative to employee exposure records relevant to the employee. Exposure records relevant to the employee consist of:
 - a. Records of the employee's past or present exposure to toxic substances or harmful physical agents.

To: ALL D. B. Davis

Subject: Employee Access to Medical or Exposure Records

The Code of Federal Regulations, Title 29 requires that we inform you of your rights to medical and exposure information related to hazardous chemicals.

As an employer committed to maintaining a safe and healthful work environment we have been collecting information on employee exposure levels and medical surveillance results over a number of years. State and Federal law affords you the right of access to:

- Chemical Exposure Information
- Medical Surveillance Information
- D.B. Davis, LLC. Procedure for Compliance
- State and Federal Law on Employee Access

The Safety Department is responsible for collecting and maintaining information on employee exposures to hazardous substances and copies of the applicable law.

The Safety Department is also responsible for conducting, collecting and maintaining information on medical results of tests used to evaluate the effect of exposure to hazardous substances.

This information is available to you free of charge. However, you will need to personally contact the Safety Department and complete a written request for the information. The written request is used to track our compliance with the law. If you have any questions or concerns, please see the Safety Manager or your Supervisor.

O) PRE-JOB HAZARD ANALYSIS

Purpose

To establish a method where by hazards may be identified prior D. B. Davis employees starting work.

Format

1. Prior to starting work at or as part of the bid procedure the Pre-Job Hazard Analysis is to be completed.
2. The Pre-Job Hazard Analysis will be completed by the Sales Representative, and/or the field Representative on the job walk.
3. Upon completion of the Pre-Job Hazard Analysis, it is to be returned to a Safety Department Representative. The Pre-Job Hazard Analysis will be reviewed with either the Sales or Job General Superintendent. The review will include a discussion of hazards, safety equipment requirements and strategies to eliminate or reduce hazards.

P) HAZARD COMMUNICATION PROGRAM

Introduction

D. B. Davis has developed a Hazard Communication Program to enhance our employees' health and safety, and to comply with applicable Federal and State regulations.

We intend to provide information about chemical hazards and other hazardous substances, and the control of hazards via our comprehensive Hazard Communication Program which includes container labeling, Material Safety Data Sheets (MSDS) and training.

The following program outlines how we will accomplish these objectives.

1. Container Labeling

It is the policy of this company that no container of hazardous substances will be released for use until the following label information is verified:

- a. Containers are clearly labeled as to the contents.
- b. Appropriate hazard warnings are noted.
- c. The name and address of the manufacturer are listed.

To ensure that employees are aware of the hazards of materials used in their work areas, it is our policy to label all secondary containers as to the contents and appropriate hazard warnings.

2. Material Safety Data Sheets (MSDS)

(For company supplied hazardous materials)

The Safety Department or their designated representative will be responsible for:

- a. Obtaining and maintaining the MSDS for their locations.
- b. Review incoming MSDS for new and significant health and safety information.
- c. Providing a MSDS for company supplied hazardous materials to client and subcontractor.

The Purchasing Department will provide the Safety Department with an MSDS for any hazardous material that is not on the current Hazardous Material Inventor. No hazardous material may be released for use until approved by the Safety Department.

MSDS will be available to all employees at either the jobsite office and/or the local Administrative Office.

HAZARD COMMUNICATION PROGRAM (cont'd)

3. Material Safety Data Sheets (MSDS)
(For client supplied hazardous materials)

The job superintendent and/or the field representative is responsible for obtaining from the client their procedure on MSDS availability for employees and subcontractors of D.B. Davis, LLC.

Instructions will be provided to the employees and subcontractors on the client MSDS availability.

4. Employee Information and Training

Employees are to attend a health and safety orientation set up by the Safety Department or designated representative, prior to starting work, for information and training on the following:

- a. An overview of the requirement contained in the Hazard Communication Program.
- b. Inform employees on clients MSDS availability procedures.
- c. Location and availability of the written Hazard Communication Program.
- d. Methods and observations techniques used to determine the presence or release of a hazardous substance in the work area.
- e. How to lessen or prevent exposure to these hazardous substances through usage of engineering controls, work practices, and/or the use of personal protective equipment.
- f. Emergency and first aid procedures to follow if employees are exposed to hazardous substance(s).
- g. How to read labels and review MSDS to obtain appropriate hazard information.
- h. To inform employees on physical and health effects and general operations where hazardous substances are present. This training matter will be organized by categories of hazards.

When a new hazardous substance is introduced, the above items will be reviewed as they relate to the new material in the safety meeting.

HAZARD COMMUNICATION PROGRAM (cont'd)

5. Hazard Specific Training

As a regular agenda item of the standing safety meeting, (tailgate, all hands and pre-shutdown) the following specific topics will be reviewed:

- a. Physical and health effects of hazardous substances to be encountered.
- b. Operations where the hazardous substance are likely to be encountered.
- c. Methods and observations techniques used to determine the presence or release of a hazardous substance likely to be encountered.
- d. How to lessen or prevent exposure to the hazardous substance likely to be encountered through usage of engineering controls, work practices, and/or the use of personal protective equipment.
- e. Emergency and first aid procedures to follow if employees are exposed to hazardous substance.

6. List of Hazardous Substances

Refer to MSDS manual.

7. Hazardous Non-Routine Tasks

Periodically, employees are required to perform hazardous non-routine tasks. Prior to starting work on such projects, the Job Superintendent and/or Field Representative will obtain from the client information on:

- a. Specific hazards likely to be encountered.
- b. Protective/safety measures which must be utilized.
- c. Measures the client has taken and D.B. Davis, LLC. may take to lessen the hazards including ventilation, respirators, presence of another employee and emergency procedures.
- d. The Job Superintendent and/or Field Representative will meet with the affected employees prior to starting work on the project to review such information as provided by the client.
- e. The client standard job procedures and/or work orders may provide the required information.

HAZARD COMMUNICATION PROGRAM (cont'd)

8. Hazardous Substances in Unlabeled Pipes
(If applicable)

- a. Prior to starting work on unlabeled pipes our employees are to contact the Job Superintendent for the following information:
 - 1. The hazardous substance is in the pipe.
 - 2. Potential hazards.
 - 3. Safety precautions which shall be taken.

9. Informing Subcontractors
(Multi-employee worksite)

To ensure that the subcontractors work safely at our jobsite, it is the responsibility of the Safety Department and/or designated representative to provide subcontractor the following information:

- a. Hazardous substances supplied by the company to which they may be exposed while on the jobsite.
- b. Precautions the employees may take to lessen the possibility of exposure by usage of appropriate protective measures for hazardous substances supplied by the company.
- c. The facility owner (client) procedures on MSDS availability, precautionary measures to be taken during normal operations, foreseeable emergencies and methods of labeling hazardous materials.

IF ANYONE HAS QUESTIONS ABOUT THIS PLAN, PLEASE CONTACT YOUR SUPERVISOR. OUR PLAN WILL BE MONITORED BY THE SAFETY MANAGER TO ENSURE THAT THE POLICIES ARE CARRIED OUT AND THAT THE PLAN IS EFFECTIVE.

 3-1-04
Dell Davis, Operations Manager Date

Q) TOXIC SUBSTANCE CONTROL ACT (TSCA)

Purpose

To provide a method whereby employees of the company may report any information which reasonably supports the conclusion that a release of a chemical substance or mixture presents a substantial risk of injury to health or the environment.

Legal Requirements

TSCA places certain reporting responsibility to all who manufacture, import or distribute in commerce of chemical substance and mixtures.

Applicability

D.B. Davis employees may follow customer's plant site Toxic Substance Control Act program provided D.B. Davis, LLC. employees are trained in their procedures.

Procedures

1. The act requires you to report any instance or indication of human health effects, adverse environmental effects, and any spill of material which could cause serious human or ecological harm.
2. If you are aware that chemical substances are being released into the environment undetected or of any actual threatened injury to people, animals, plants or the environment, immediately notify your supervisor or company representative orally and in writing.
3. Upon reporting the information you are relieved of your reporting responsibilities under TSCA regulations. You will be informed within a few days of the subsequent evaluation of your report.
4. Upon receiving the information of an instance or indication of human health effects, spills or adverse environmental harm, it will be the responsibility of the client to notify the appropriate agency.

R) TOXIC AND HAZARDOUS SUBSTANCES

Purpose

To inform employees of any toxic or hazardous substances which the employee may be exposed to while working for D.B. Davis, LLC.

Applicability

D. B. Davis employees may follow customer's plant site Toxic and Hazardous Substances program provided D.B. Davis, LLC. employees are trained in their procedures.

Procedure

In most construction work performed on an existing operating facility, there may be isolated exposures to toxic and hazardous chemicals used in various processes. Contact the operations officials in engineering or safety at the facility and they can inform you at the onset where, if any, areas exceed the allowable concentration of hazardous chemicals and what the toxicity can be when an employee is exposed to toxic substances used in the process. Usually areas are identified with signs or markings which should be respected in any operating facility. After proper identification of toxic and/or hazardous substances, protective measures can be taken to prevent injuries and illnesses to employees assigned to jobs in the various areas. Items that can assist in the prevention are as follows:

1. Seek the assistance of the project superintendent or safety engineer to monitor and establish necessary personal protective equipment which must be worn. Avoid exposure when possible.
2. Heed all warning signs indicating areas of potential exposure to toxic or hazardous substances.
3. Post location of emergency showers and train workers in the importance of flushing hazardous substances off. Substances must be washed off skin, clothing, boots, etc., immediately. Do not wear contaminated clothing until it has been washed thoroughly free of substance. Temporary clothing may be obtained at Project First Aid.
4. Many toxic and hazardous substances are fire hazards. Necessary precautions must be taken to prevent fires and protect against injury.
5. Constant surveillance and good communications by everyone can prevent unnecessary accidents.
6. NIOSH/OSHA Guide to Chemical Hazards may be obtained through management and can assist in identification, treatment, and emergency response.

D. B. Davis, LLC

INJURY AND ILLNESS PREVENTION PROGRAM

INJURY AND ILLNESS PREVENTION PROGRAM

It is the policy of D. B. Davis, LLC. to fully comply with labor code 6401.7 (SB 198) and general industry safety order 3203, Injury and Illness Prevention Program.

I. EMPLOYER INFORMATION

Organization/Entity: D. B. Davis, LLC.

Address: 11014 19th Ave. SE
Everett, WA 98208

Telephone: (425) 357-9989

II. [3203(a)(1)] RESPONSIBILITY FOR IMPLEMENTATION

Persons having the authority and responsibility for implementing this employer's injury and illness prevention program:

Name/Title: Dell Davis, President

III. [3203(a) (2)] EMPLOYEE COMPLIANCE SYSTEM

Employees are responsible for understanding and complying with safe and healthy work practices pertaining to their work. Failure to comply is grounds for discipline including termination.

Recognition

Employees who follow safe and healthful work practices may be recognized by identification and commendation by their supervisor and/or the safety department.

Training and Retraining

The Company shall Sponsor or require participation of employees in appropriate job-specific training.

Disciplinary Action

Failure to comply with safe and healthy work practices is grounds for discipline including termination.

IV. [3203(a)(3)] PROGRAM COMMUNICATION

All program communications shall be readily understandable by employees.

Identification of Hazards

Employees are required to inform supervision of any hazards identified at a worksite.

Suggestion Box

Employees can submit safety suggestions or identify hazards anonymously to the safety department through safety suggestion boxes.

Meetings

The safety program will be communicated to new hires through an orientation program. Periodic safety meetings will be held to communicate program material to employees.

Training

The Company will sponsor or conduct training on matters relating to occupational health and safety.

V. [3203(a) (4)] HAZARD IDENTIFICATION

Supervisors and the safety department will conduct and document periodic safety audits and inspections to identify safety and health hazards. When a new hazard is identified, the affected employees will be trained on the proper procedures and information required to perform their job in a safe manner.

VI. [3202a(5)] ACCIDENT INVESTIGATION

Supervisors shall submit a written accident investigation report to the safety department for every accident requiring medical treatment or any other accident that they are instructed to investigate. The safety department may choose to investigate serious accident in addition to the supervisor's report.

VII. [3203(a) (6)] HAZARD CORRECTION

All hazardous conditions identified through inspections/audits, safety meetings or safety suggestion boxes will be corrected in a timely manner based on the severity of the hazard. Corrections will be documented and retained.

When an imminent hazard exists, employees shall follow the emergency evacuation procedures and should not return to work until they are instructed to do so by their supervisor. Those employees correcting the hazardous condition will be supplied with the appropriate equipment to conduct repairs safely.

VIII. [3203 (a) (7)] TRAINING

All new employees will attend a safety orientation program appropriate for their position. Employees who change positions will receive the necessary training. When new equipment,

substances or hazards are introduced to a worksite, employees will be supplied with Material Safety Data Sheets on new substances and will receive any training required to operate additional equipment. Supervisors will receive periodic training via a supervisor's meeting conducted by the safety department and/or management. The supervisors will be informed of new hazards and equipment and receive training in those areas as needed.

IX. [3203(b)(1)] INSPECTION RECORDS

Records of all safety inspections and audits will be maintained for three years. Records shall include inspector, site, date of inspection, identified hazards, actions taken and date of correction.

X. [3203(b)(2)] TRAINING RECORDS

Records of all training that employees receive will be maintained for three years. Information will include the employee name, date of training, type of training received and name of the training provider.

XI PSM REQUIREMENTS OF CONTRACTORS:

Train each employee in the work practices necessary to safely perform his/her job (Initial training, Refresher training).

Instruct employees in known fire, explosion, or toxic hazards.

Document that each employee has received and understood the above training, including the means used to verify understanding (Generally interpreted as testing).

Insure that employees follow the Owner Company's rules and procedures

Advise the Owner Company of any unique hazards presented by the contractor's work, and any hazards found during the work.

XI REVIEW AND APPROVAL:

This Injury and Illness Prevention is hereby approved.

RESPONSIBLE PERSON(S): Signatures indicates that a copy of the program has been provided and responsibility to implement the program is understood.

 3-1-04
Dell Davis, President - President Date

Septic Waiver Letters

Public Health, Seattle and King County
Site Design Application Form for Individual On-Site Sewage System (OSS)
(Submit 5 copies of application with 4 copies of plans)

Activity Number

ON

Department Use Only

Approximate
Site Address:

Tax Lot 0707, 6th St N, Skykomish, WA

ATTACH A DETAILED ROUTE/ DIRECTION
MAP FOR LOCATING THE PROPERTY.

Name and address of property owner

Robert Mackner, Box 343, Skykomish, WA 98288

Applicant
Name

RETEC Group, Inc (Mike Byers, P.E.)

Last

First

Street Address

101 SW Klickitat Way, Suite 207

City-Zip Code

Seattle, WA 98134

Phone

206-624-9349

Designer

Craig Shuck

Street Address

AAA Drainfield Designs, Box 12216

City-Zip Code

Bothell 98082

Phone

425-486-8875

THIS IS NOT A PERMIT

PROPERTY INFORMATION:

Legal Description Attached ☐

Parcel #

7 8 0 7 8 0 0 7 0 7

Section: 26

Township: 26

Range: 11

Subdivision Name:

Lot:

Block:

Property Size

5 6 9 4

Sq. ft.

Acreage: 0.13

Rural Area ☐

Urban Area ☒

Distance from property line to nearest sewer:

N/A

Water Supply

(IP) I = Individual

☒ Group A Supply

☐ Group B Supply

Public Water Supply Name:

Skykomish

Sensitive Area:

N

(Y?N) If yes, specify

(L,W,O) L = Landslide

W = Wetlands

SYSTEM INFORMATION:

New System ☐ Repair Design ☒ Correction of OSS Failure? ☐ Y?N

Type of Building ☒ S ☐ F ☐ SF = Single Family MF = Multiple Family

Type of System Proposed:

0

G = Gravity

GP = Gravity with pump

MP = Mound

SF = Sand Filter

PD = Pressure Distribution HT = Holding Tank

CT = Composting Toilet

E = Experimental

O = Other

Sub Surface

Dates Soils Logged: N/A (original soils to be replaced)

Soil Logs Data Attached: (Min. 4/lot)

☒ Y?N

Mound

Depth to Watertable or Restrictive Layer: 48+ Inches

Maximum Slope in Drainfield/Reserve Area 0.1 %

CALCULATIONS:

Number of bedrooms: 3 Total gallons/day (450 min.): 450 gal.

Soil Texture Type (1A-5)

BED

Application Rate: 1.0 gal/sq ft/day

Total Absorption Area: 450 sq. ft.

Trench Width

8-10 ft

Total Drainfield Length: 56 ft.min.

Septic Tank Size: 1000 gal.

Garbage Grinder ☐ Y?N

Pump Chamber Size (if needed)

1000

gal.

Trench Depth (min/max):

21

/

24

inches

I understand that failure to comply with the Code of King County Board of Health Title 13 may result in the disapproval of the sewage system being proposed in this application. Non-compliance may lead to revocation of my Designer's Certificate of Competency and/or appropriate legal action by the Health Department.

Designer's Signature:

Craig Shuck

WAC. ID# 5100204

Date: 9-12-06

FOR HEALTH DEPARTMENT USE ONLY:

NOTE: SYSTEM MUST BE INSTALLED BY A KING COUNTY CERTIFIED INSTALLER UNLESS OTHERWISE PROVIDED BY CODE

APPROVED (date):

BY:

Comments

☐ Pre-construction meeting required between designer, installer, builder prior to permit issuance

APPROVAL OF THIS DESIGN APPLICATION IS BASED SOLELY ON INFORMATION PROVIDED IN THIS APPLICATION AND DOES NOT CONSTITUTE PERMISSION TO BEGIN CONSTRUCTION OF THE PROPOSED SEWAGE DISPOSAL SYSTEM OR ANY OTHER IMPROVEMENTS ON THE SITE. THIS APPROVAL SHALL NOT BE CONSIDERED AN ASSURANCE, EITHER EXPRESSED OR IMPLIED, THAT DEVELOPMENT PERMITS FOR THE SITE WILL BE ISSUED. THIS APPLICATION EXPIRES TWO YEARS FROM DATE OF APPROVAL.

DISAPPROVED (date):

BY:

See attached Site Deficiency Sheet.

Any person aggrieved by any decision or final order of the Health Officer may file a written application for appeal to health officer within 60 calendar days of the date of the above decision. (Title 13, K.C.B.O.H. Chapter 13.12 - Sewage Review Committee). M/forms/sewageform.99. CS 13.15.97 REV. 8/4/99 White - District/Green - Audit/Yellow - Designer/Pink - Owner/Yellow - License & Permits

RECEIVED



HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Dorothy F. Teeter, MHA, Interim Director and Health Officer

July 10, 2006

RETEC Group, Inc.
Attn: Mike Byers, PE
1011 SW Klickitat Way, STE 207
Seattle WA 98134-1162

RE: Request for waiver – File #06-11
Per King County Board of Health Title 13 – Sewage Review Committee
Property Address – 6th Street North
Parcel Number: 7807800707

Dear Mr. Byers:

Your application for waiver of the Code of the King County Board of Health (BOH), Title 13, has been considered.

Waiver(s) Requested:

- 13.28.030.O: Propose installing on-site sewage system (OSS) components in a zero rise floodway of a flood hazard area as described by King County Title 21A.
- 13.28.030.P proposed installation of OSS components in soil material not classified as original permeable soil (i.e. original to the subject site)

The request for waiver is associated with an existing 2 bedroom single family residence on a 0.13 acre parcel. Per the proposal, use of the existing cesspool (serving the property) is to be replaced by utilization of a subsurface mound on-site sewage system (OSS).

Site Visit

On June 22, 2006 the Sewage Review Committee met on the subject site with the applicant, the OSS Designer, the health department field reviewer, the District Environmental Health supervisor, and a number of interested parties. Observations made by the committee included but were not limited to the following:

1. There appeared to be no evidence of high seasonal water table or restrictive layer present in the proposed subsurface absorption system component areas (SSAS).

Decision:

The committee opted to provide an additional seven day period for reviewing additional comments and/or concerns of the public submitted during this extension period. The record did

Eastgate Environmental Health
14350 SE Eastgate Way • Bellevue, WA 98007
T 206-296-4932 F 206-296-4919
www.metrokc.gov/health

 **City of Seattle**
Gregory J. Nickels, Mayor

 **King County**
Ron Sims, Executive

not indicated submission of any additional written statements for review. After reviewing the application and the facts associated with the site visit referenced above, it is the decision to approve the request for waiver. With the exception of the above cited code section pertaining to the specific waiver request, the system design and subsequent installation shall conform to all requirements of BOH Title 13. This waiver is contingent upon fulfillment of the following conditions:

NOTICE: This variance shall expire after two (2) years from the date of this letter unless the on-site sewage treatment and disposal system is installed and approved by the health officer prior to the expiration date. TO FURTHER CLARIFY, THIS MEANS THAT HEALTH DEPARTMENT APPROVAL OF THE OSS AS-BUILT CERTIFICATION MUST BE SECURED BY CLOSE OF BUSINESS JULY 10, 2008.

THIS WAIVER IS NOT AN APPROVAL OF THE PROPOSED OSS DESIGN. You must obtain approval by the health department field reviewer of the revised site design application incorporating the conditions of this waiver. Upon receipt of this letter, the OSS Designer for the project may submit with the applicable fee, four (4) complete copies of the site design application revised to include the following conditions to the Eastgate Public Health District Office for compliance review and distribution..

1. No building located on the subject property shall be equipped with a garbage grinder unless or until public sewers serve said property.
2. To assure quality control, the OSS designer shall be present during installation of all OSS components.
3. To the greatest extent possible, the OSS shall be installed during the dryer months of the year, and during a period preceded by a minimum of two weeks void of appreciable rainfall.
4. As the proposed OSS repair/replacement is non-conforming with respect to minimum reserve area, the health department will not approved the building for use as a three bedroom residence until such time as the design and availability of the future public sewer system ~~is approved by the applicable jurisdiction.~~
5. As part of the required notice on title for the OSS (to be filed on the deed via the Department of Records and Elections), the property owner(s) shall include the following:
 - a. A statement indicating that in order to reduce hydraulic and organic loading on the system, no garbage grinder shall be installed or maintained in the structure until such time as public sewer serves the property;
 - b. A statement indicating that in order to reduce hydraulic loading on the system, any/all laundry washing machines maintained in the house/structure will be restricted to the low water use front loading appliances.

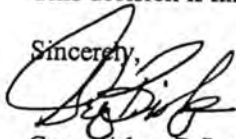
Mike Byers, PE
RETEC Group Inc.
July 10, 2006
Page 3

- c. A statement indicating that upon availability of the future community sewer system (currently being designed), the subject property will be connected to said system within 6 months of availability. Furthermore, within this time period the OSS wastewater tanks will be abandoned/decommissioned per King County Board of Health requirements.

The committee and this department duly note that this waiver is being granted in connection with phase one of a three year Department of Ecology cleanup project. Furthermore, the committee and this department hereby acknowledge that given proposed installation of the OSS components in previously disturbed soil material and the lack of minimum land area for reserve SSAS replacement, the specific proposal and resultant OSS (Record Identification Number ON0075470) is considered at best, an interim measure of sewage treatment and disposal prior to provision of a community sewer system so referenced in item "c" above.

This decision is final subject to judicial review pursuant to RCW 36.70C.

Sincerely,



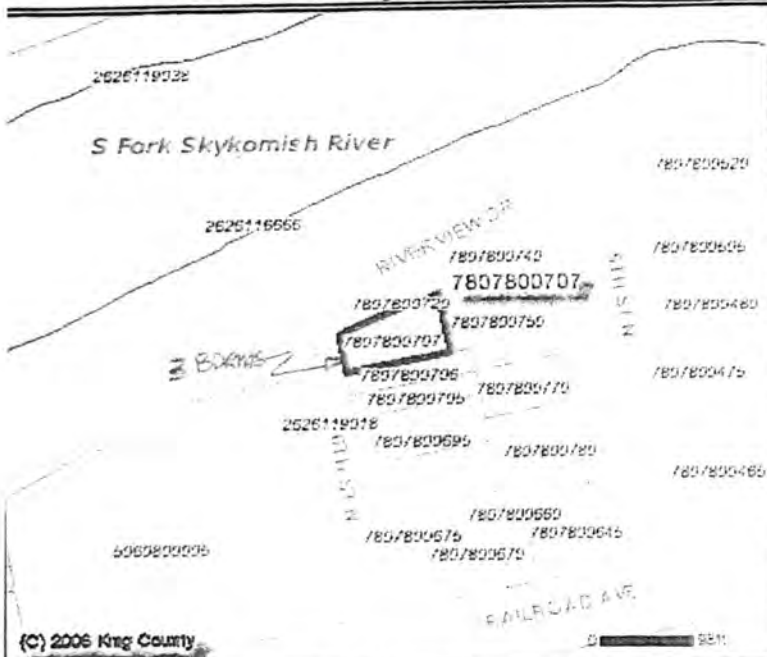
Greg Bishop R.S., Supervisor
Community Environmental Health
Eastgate Service Center

GB:dc

cc: Larry Fay, Section Manager, Community Environmental Health
Ken Elliott, R.S. Health & Environmental Investigator II
Craig Shuck, R.S.
Robert Mackner
Ann Sekor
Theo Cleveland
Clinton S. Stanovsky
Harry Sellers, PE
Tim Nord



Parcel Map and Data



Parcel Number	7807800707
Address	6TH ST
Zipcode	98288
Taxpayer	MACKNER ROBERT+CHARLOTTE

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County."

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The details.

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98082

425/486-8875 phone & fax



ATTENTION:

The Applicant, Builder and Installer (or their agents) must take Special note, precautions, and direct supervision of the Development of the subject lot and Onsite Septic System.

Review the application package carefully. There are many special construction notes.

This site requires waivers granted by the Sewage Review Committee Case #06-11. There are special requirement:

1. No building located on the subject property shall be equipped with a garbage grinder unless or until public sewers serve the property.
2. To assure quality control, the OSS designer shall be present during installation of all OSS components (including soil reconstruction).
3. To the greatest extent possible, the OSS shall be installed during the dryer months of the year, and during a period preceded by a minimum of 2 weeks void of appreciable rainfall.
4. A connection to public sewer must be available prior to clearance for expansion to 3 bedrooms.

Mistakes and/or deviations from the approved Onsite Septic System design, Code requirements and/or conditions during the Development process could invalidate any approval granted.

Sincerely,

Craig O. Shuck, RS
Designer #5100204

AAA Water Purification & Drainfield Designs, Inc.

phone: 425-486-8875

P.O. Box 12216 Bothell, WA 98082

Date: 4-17-06

Scale: 1" = 50'

Revised: 9-12-06

Client: **RETEC**

Skykomish-Renovation

Project Notes: All work to conform to regs. of King Health Dist.

1. No change of design of locations w/o approval of AAA Drainfield Designs.
2. No heavy clearing/disturbing soil with heavy equipment before installation.
3. Ten vertical ft. of existing soils will be removed within the defined boundary. The subsoil material will be replaced with cobbles, rip-rap, or similar material. The sub-fill material will equal the porosity of the original or be no less than a coarse sand.
4. The fill material 24" or greater below, and to the sides of the proposed drainfield beds will be coarse to medium sand, no less than ASTM C-33 specifications.
5. Given the temporary nature of this proposal 100% Drainfield Reserve Areas not required.
6. This proposal is not necessarily optimized for future Community Sewer connection.

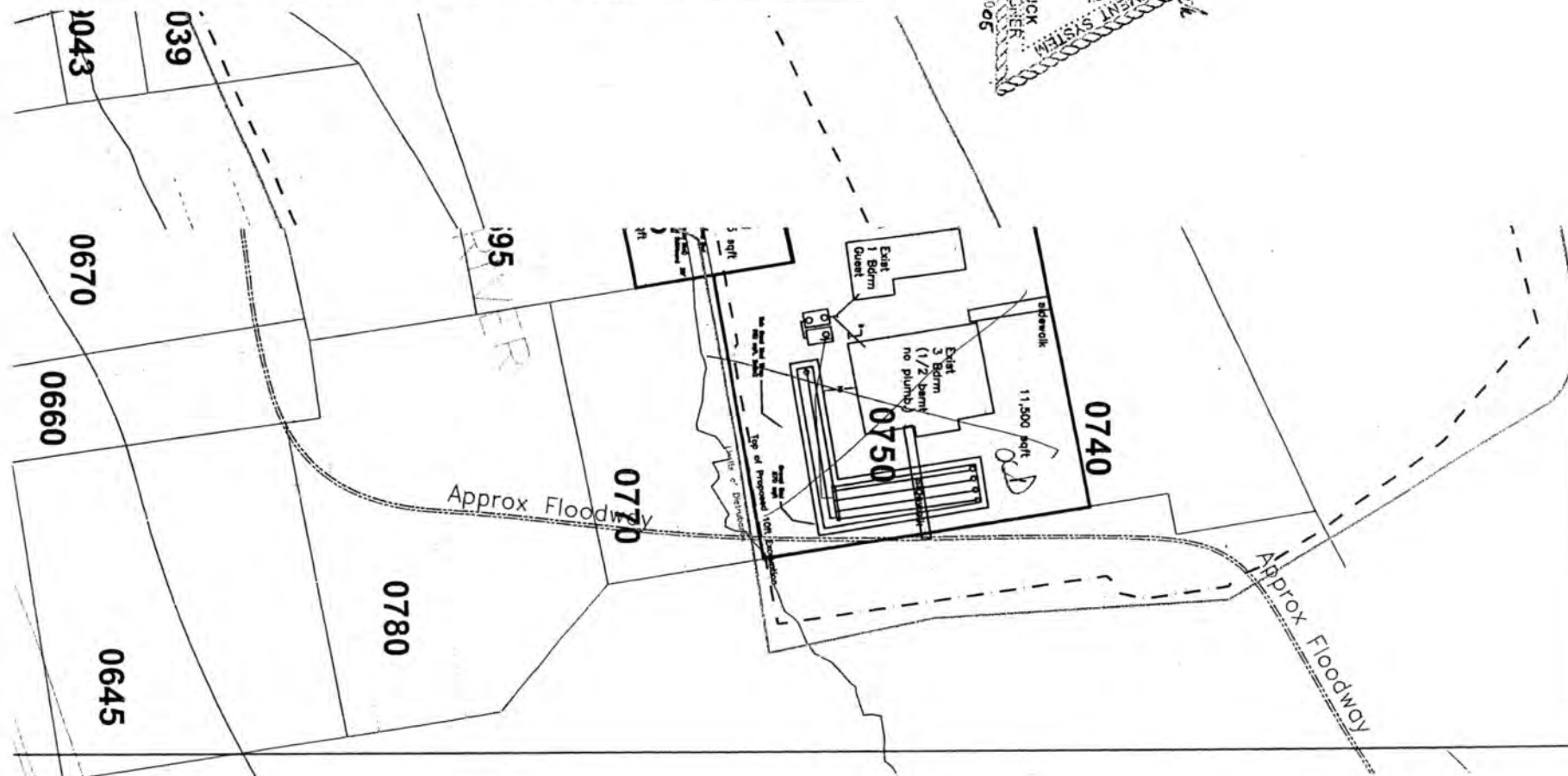
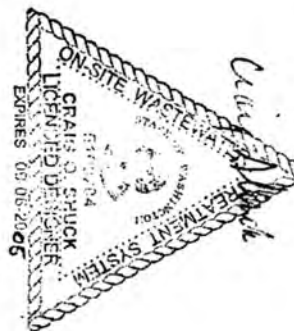
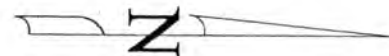
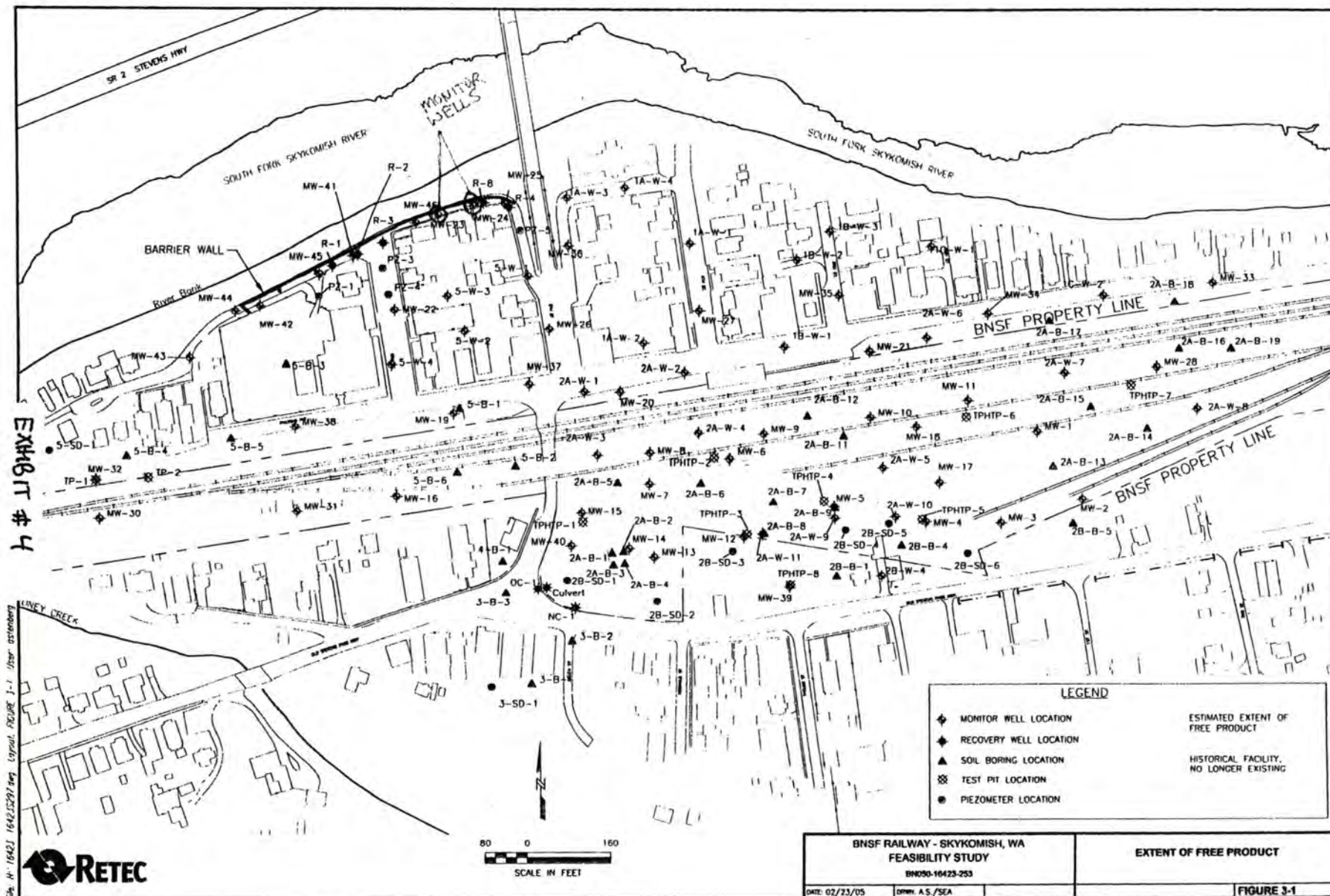


EXHIBIT #4
 PAGE 1 OF 3



MW-23			
Date	TOC elev (ft-msl)	DTW (ft- TOC)	Potentiometric Elevation (ft-msl)
5/29/2003	925.58	5.22	920.36
6/27/2003	925.58	6.5	919.08
7/30/2003	925.58	7.47	918.11
8/27/2003	925.58	7.92	917.66
10/2/2003	925.58	8.02	917.56
10/29/2003	925.58	4.38	921.2
12/2/2003	925.58	4.44	921.14
12/30/2003	925.58	6.43	919.15
1/30/2004	925.58	2.57	923.01
3/5/2004	925.58	6.09	919.49
3/26/2004	925.58	5.51	920.07
4/30/2004	925.58	5.73	919.85
5/27/2004	925.58	5.31	920.27
7/1/2004	925.58	6.59	918.99
7/29/2004	925.58	7.39	918.19
8/31/2004	925.58	6.9	918.68
9/30/2004	925.58	6.81	918.77
10/29/2004	925.58	5.96	919.62
11/30/2004	925.58	5.05	920.53
12/30/2004	925.58	6.09	919.49
1/31/2005	925.58	5.43	920.15
2/28/2005	925.58	6.9	918.68
4/1/2005	925.58	4.81	920.77
4/29/2005	925.58	5.65	919.93
5/31/2005	925.58	6.3	919.28
6/30/2005	925.58	6.95	918.63
7/29/2005	925.58	7.37	918.21
8/29/2005	925.58	7.83	917.75
9/30/2005	925.58	5.14	920.44
10/31/2005	925.58	5.98	919.6
11/28/2005	925.58	6.01	919.57
1/4/2006	925.58	4.7	920.88
1/31/2006	925.58	4.11	921.47
2/20/2006	925.58	6.46	919.12
3/31/2006	925.58	6.4	919.18
4/28/2006	925.58	5.64	919.94
5/22/2006	925.58	4.61	920.97

Monitoring Well Data

Well Number MW-23

- Notes: 1. well is approx. 15' North of lot 0707 = elevation.
 2. well head, top of casing is -0.74' below grade (9")
 3. Adjust each static water level by adding 9" (0.74')
 4. Closest water level has been to surface is 3.31' (40") on 1-30-2004

EXHIBIT # 4

PAGE 2 OF 3

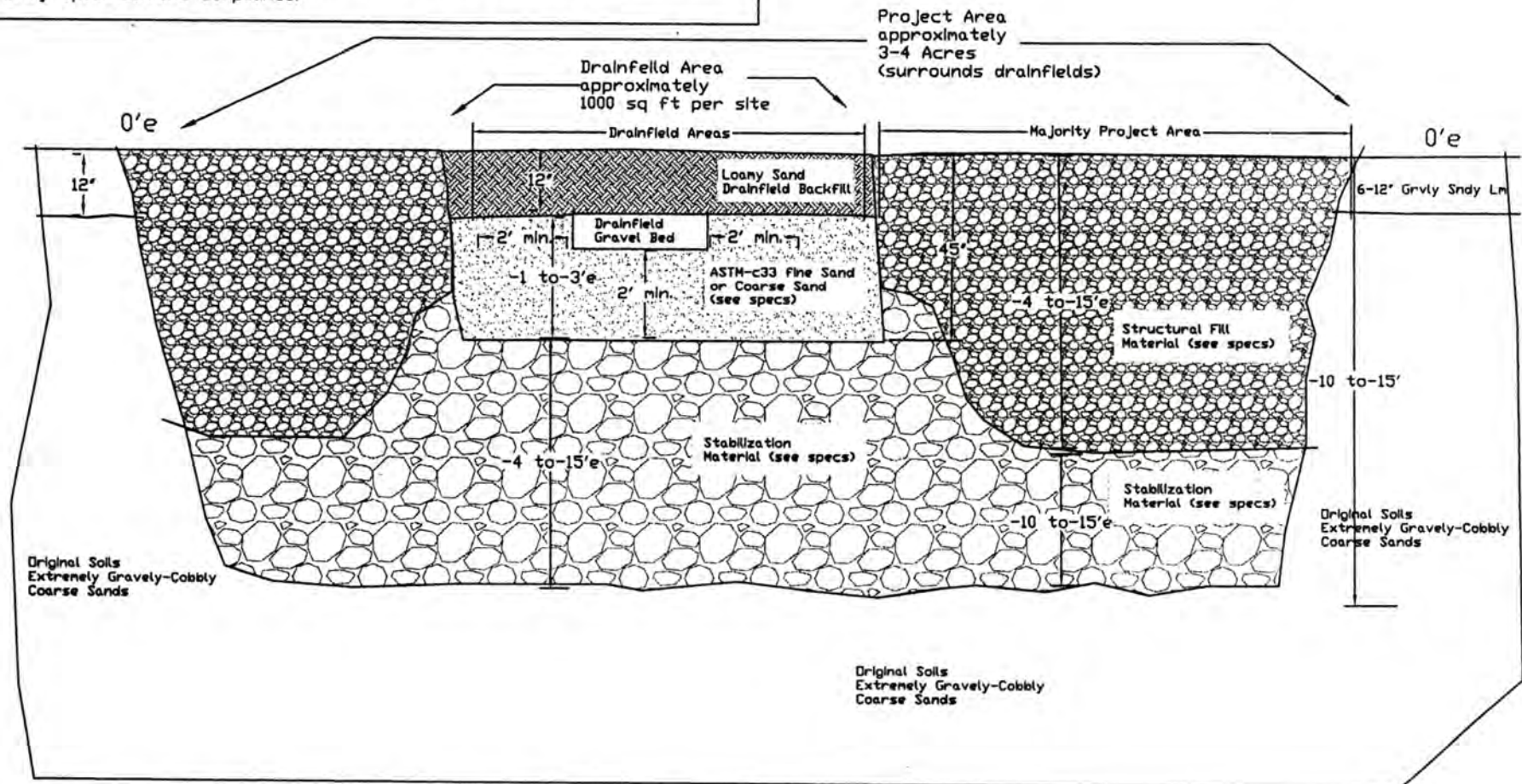
AAA Water Purification &
Drainfield Designs, Inc.,
phone: 425-486-8875
P.O. Box 12216 Bothell, WA 98082

Scale: none

Revised:

Construction Notes: All work to conform to regs. of King Health Dept.

1. No change of design of locations w/o approval of AAA Drainfield Designs.
2. Stabilization Material to be used below Fill Sands in Drainfield Area.
3. Structural Fill Material to be used outside drainfield area, no closer than 24'.
4. ASTM-C33 Sand or Coarse Sand Fill Material to be used within 24' of Drainfield.
5. Loamy Sand backfill material to be placed over the drainfield bed.
7. Materials specified should be installed in lifts to control mixing and southing.
8. A minimum of 2 sieve tests to be run from material delivered to each site to verify specifications compliance.



Skykomish Ecology Cleanup Fill Materials Cross Section

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98082

425/486-8875 phone & fax

Skykomish Ecology Cleanup Project

Soil Reconstruction Specifications

(per the RETEC Group, Inc.)

4-10-06

Stabilization Material

U.S Standard Sieve Size	Allowable Percent Passing
2-1/2 inch square	100
2-inch square	65-100
3/4 inch square	40-80
No. 4	5 max.
No. 100	0 - 2
% fracture	75 min.

This material simulates the native soils removed (i.e. Soil Type 1A). In the area of the reserve drainfield placement this material will be used and the proposed subsurface mound system will be construction on top of it. See attached cross section.

Structural Fill

U.S Standard Sieve Size	Allowable Percent Passing
4-inch square	100
2-inch square	75-100
No. 4	50-80
No. 40	30 max.
No. 200	7 max.
Sand Equivalent	50 min.

In the complete project area the majority of the replacement soil will meet this specification. This material will be compacted and meet min. Building Code requirements for foundation and home replacement. The septic pump tanks will be placed in this compacted and stabilized material.

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98082

425/486-8875 phone & fax

Preferred Material for Sub Surface Mound Construction

Coarse Sand Media Specification

<u>Sieve</u>	<u>Particle Size</u>	<u>Percent Passing</u>
3/8 in.	9.50mm	100
No. 4	4.75mm	95 to 100
No. 8	2.36mm	80 to 100
No. 16	1.18mm	45 to 85
No. 30	0.6mm	15 to 60
No. 50	0.3mm	3 to 15
No. 100	0.15mm	0 to 4

- Effective Particle Size (D10) > 0.3mm.
- Uniformity Coefficient (D60/D10) < 4.0

Minimum Material for Sub Surface Mound Construction

ASTM C-33 Sand Media Specification

<u>Sieve</u>	<u>Particle Size</u>	<u>Percent Passing</u>
3/8 in.	9.50mm	100
No. 4	4.75mm	95 to 100
No. 8	2.36mm	80 to 100
No. 16	1.18mm	50 to 85
No. 30	0.6mm	25 to 60
No. 50	0.3mm	5 to 30
No. 100	0.15mm	0 to 10
No. 200	0.075mm	< 3

- Sand must have no more than 45% passing any one sieve and retained on the next consecutive sieve of those shown above.
- The fineness modulus must not be less than 2.3 nor more than 3.1

A minimum of 2 sieve samples per site will be collected from the actual material delivered to the site. Results to be determined by an independent testing lab. The 'pit' sieve record may be evaluated for consistency.

AAA Drainfield DesignsP.O. Box 12216
Bothell, WA 98012

425-486-8875

Pump System Specifications

Aquaworx

For: RETEC - Mackner
At: Tax Lot 0707
Date: 9/12/2006Pump to ☐ Gravity, ☐ Pressure Distribution, ☒ Mound1. Transport pipe diameter: .2 in., 75 feet in length (class 200 PVC)2. Install a Goulds WE07H, 3/4 hp Effluent Pump (or equivalent) in the pump chamber.
25.0 gallon dose volume.

3. Pump to have 3" separation from pump intake to the bottom of pump tank.

4. The Aquaworx Programmable Timer incorporates an audible and visual alarm system. The alarm system is mounted within clear sight (NEMA rated electrical enclosures if mounted outside).

5. The Aquaworx Programmable Timer is set to pump: 25.0 gallons per cycle
(This to be done per designer's Pressure Distribution Summary spec sheet.)Note: the transducer control is to be mounted independently of the pump fittings.

An Aquaworx Programmable Timer (or equivalent) is required to control the dose cycles and volume. Set the timer for an "ON" time of: 0.32 minutes
Set the timer for an "OFF" time of: 1.33333 hours.
Contact Designer for specific timer manufacturer recommendations.

6. Install a redundant off float 3" below standard off setting. The redundant off switch must be set above the pump motor. The pump is to remain submerged at all times, per electrical code.

Note: Gas-tight junction Boxes or splices are required per electrical code.

7. The effluent dose volume is to be delivered to the drainfield or mound within 10 minutes (max.) after the pump turns on. According to design specifications and pump selected:

25.0 gallon dose / 77 GPM = 0.32 minutes per dose

8. Install a backflow check valve in the outlet line inside the pump tank, above the disconnect union.

9. Install quick disconnect fittings for pump removal and also a rope from the pump to the drywell lid for easy removal.

10. Drill a vent hole and/or siphon hole in the discharge line within the drywell to prevent pump cavitation and/or siphoning.

11. All wiring is to meet Washington State Electrical Code and Permits.

12. Pumps and alarm systems are to be placed on separate electrical circuits.

15. All pump installations shall incorporate a riser & locking lid that will remain visible above finished grade.

16. Calculations: ☒ see design summary

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98012

425/486-8875 phone & fax

For: RETEC - Mackner
At: Tax Lot 0707
Date: 9/12/2006

1000 Gallons Total Minimum Capacity

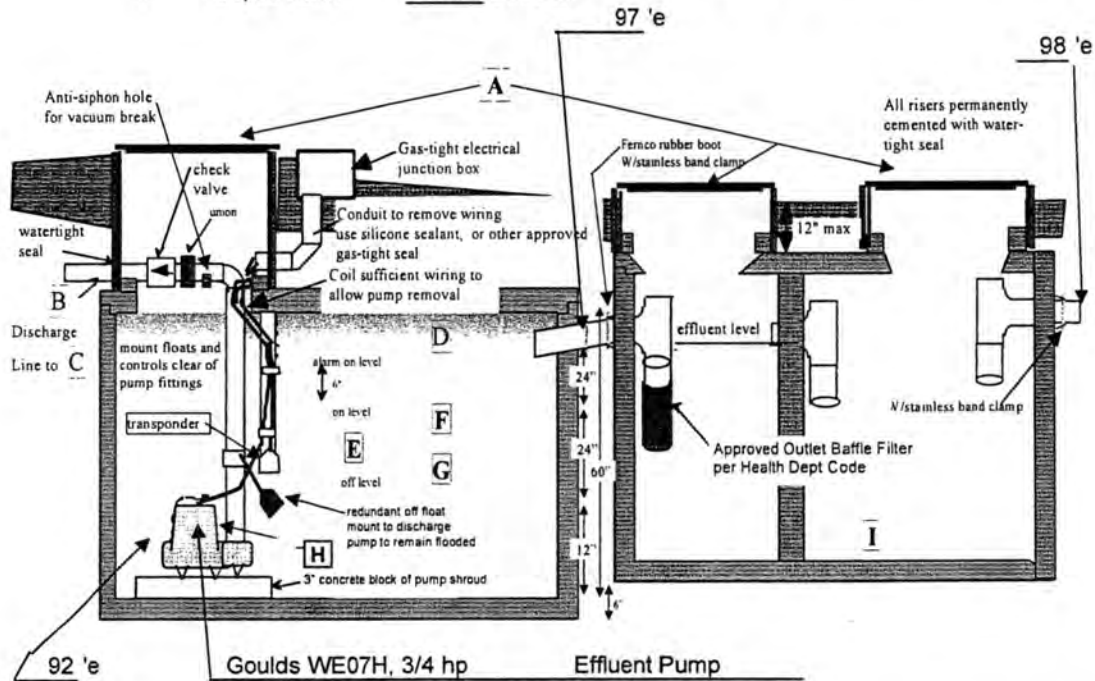
(see note below regarding tank size requirements and timer wiring)

Pump Chamber Specifications

*** High Water Table-Watertight tanks required

(Not to Scale)

- A 24" dia. Orenco Riser and locking lid w/gas tight seal
- B 2" Diameter PVC
- C Subsurface Mound
- D Reserve Capacity 450 Gal. (3 Bedrooms @ 75-100% of capa GPD)
- E 1.25 inches (assumes tank @: 20 Gallons/inch capacity)
- F 25 Gallon Dose Volume
- G 450 Gallon Daily Capacity
- H If pump exceeds 13" a shroud or larger tank may be necessary
- I Septic Tank 1000 Gallons



Special Notes:

- The sewage effluent pumping system shall be fitted with a programmable timer set to limit the dosing within designed daily hydraulic loading. (450 GPD max., continuous use at, or near peak design limits may lead to early system failure.) Select appropriate Programmable timer: Aquaworx IPC-1SXor2SX (or equivalent manufacturer, must be approved by Designer).
- The Septic Tank, and Pump Tank, shall have lockable access lids, installed at final grade to facilitate monitoring and maintenance of the system.
- Electrical control panel is to be installed within line of sight of pump tank/drywell.
- Electrical control panel is to be equipped with visual and audible alarms in clearly visible location.
- Gas-tight junction boxes or splices are required per Electrical Code.

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98012

425/486-8875 phone & fax

For: RETEC - Mackner

At: Tax Lot 0707

Date: 9/12/2006

Drainfield Pump:

Goulds WE07H, 3/4 hp

Goulds
Submersible
Effluent Pump

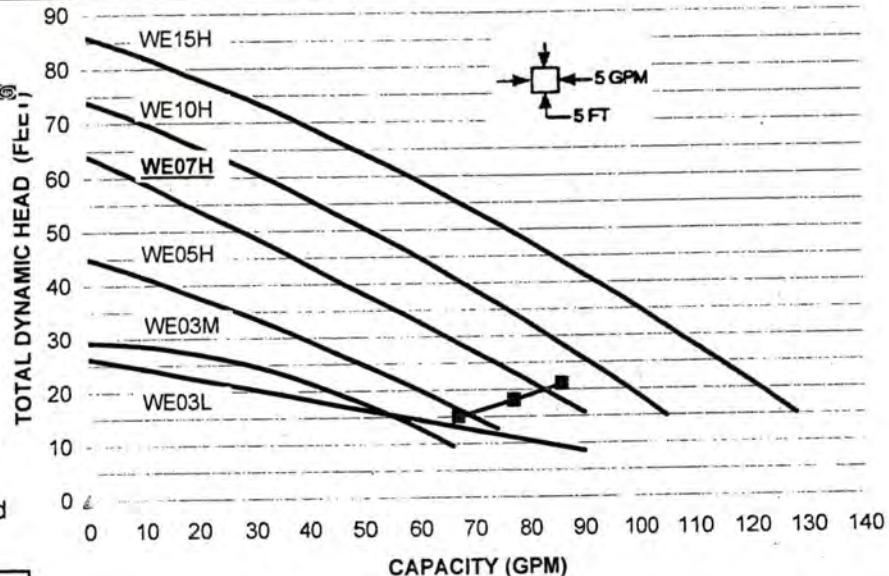
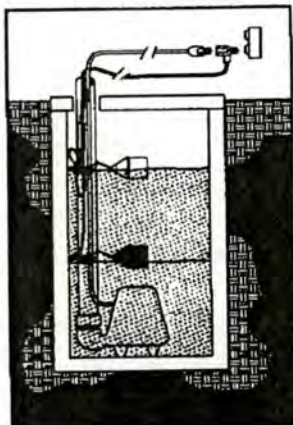
MODEL
3885



KEY

■ PUMP TO MOUND

Plot Points:
mound 3', 4', 5' residual Hd



Programmable Timer Control Panel:

Rhombus TD-123 (120vac)

Rhombus TD-223 (240vac)

Aquaworx IPC-1SX (120vac)

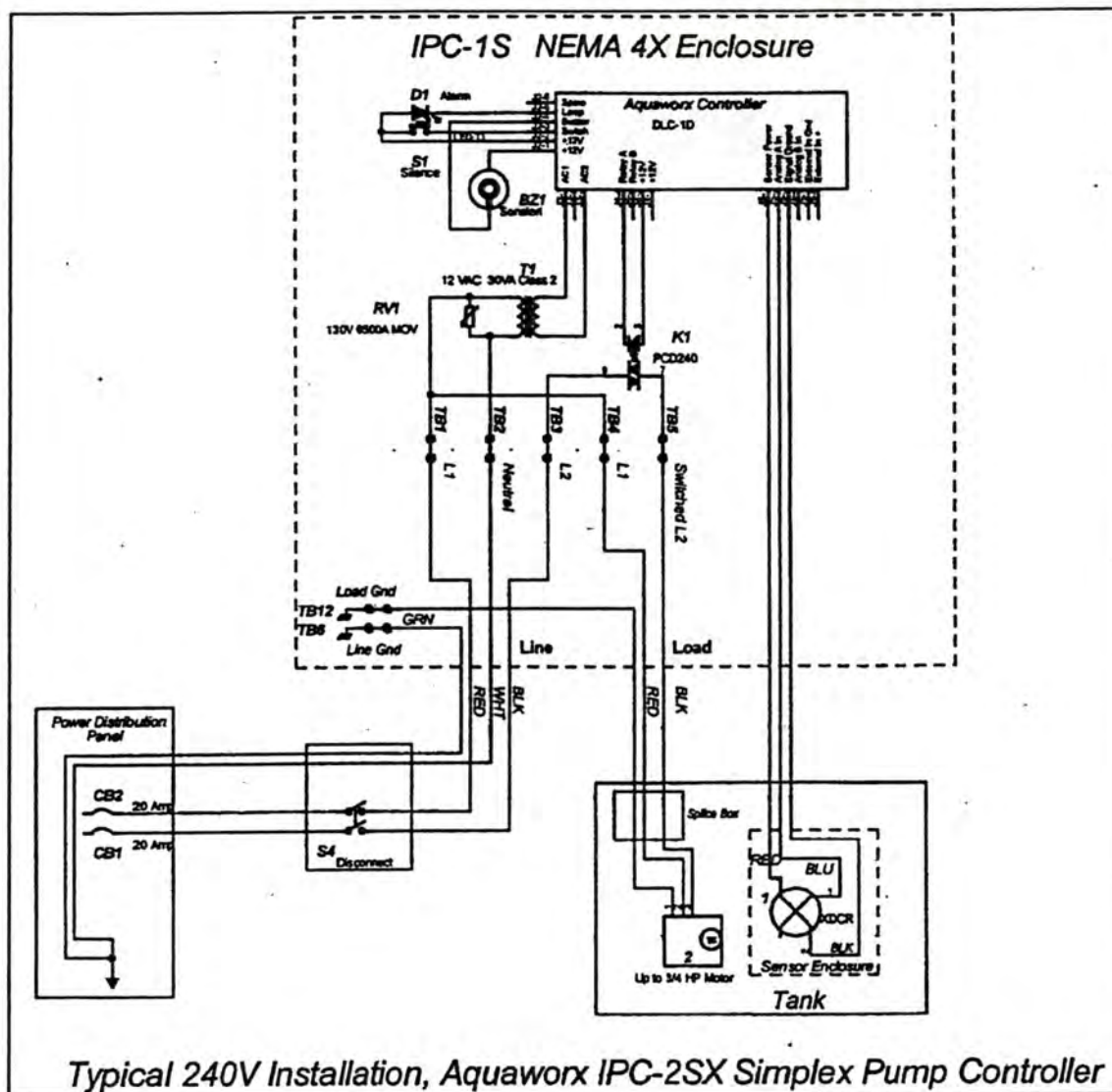
→ Aquaworx IPC-12X (240 vac)

S.J. Electro Systems, Inc.

Use with Rhombus Timer Panels: (Aquaworx Panels N/A)

The DOUBLE FLOAT Pump Switch is designed to control pumps, solenoids, relays and alarms in water and sewage systems.

- Provides precise pumping range 1" - 48"
- Not affected by rotation or turbulence
- Models available to allow pump-up or down
- With or without piggy-back plug
- Various cord lengths



Date: 9/12/2006
 Client: RETEC - Mackner
 Location: Tax Lot 0707

AAA drainfield designs, inc.

Craig O. Shuck, R.S., MSPH

P.O. Box 12216, Bothell, WA 98012

206/486-8875 phone & fax



Sub Surface Mound Site Preparation & Construction Procedures

For: RETEC - Mackner
At: Tax Lot: 0707
Date: 9-12-06

Note: All construction must take place during dry weather and soil conditions.

1. The designer, builder, installer, and owner shall hold a preconstruction conference on the site prior to any clearing or construction activities on the lot to ensure that all individuals are aware of necessary safeguards to preclude negative impacts of the lot development and house construction upon the sewage system absorption areas.
2. The Ecology Cleanup Project in the area results in special conditions for this installation. Rebuilding the soil profile in the proposed drainfield area is to meet the attached specifications. The soils rebuilding activity in the drainfield area is to be accomplished under the direct supervision of the designer.
3. The soils in the drainfield area are to be constructed to approved specifications and located by surveyed bearing and distance from Benchmark Datum Points. It is important to verify that the subsurface mound area soils are reconstructed in the correct and designed area.
4. The filter material (ASTM c-33 sand or coarse sand) may be placed in the specified area during the soil reconstruction process, or excavated by the installer and installed after the area is rebuilt. During the rebuilding process it is important that the drainfield area soils be similar to the original type 1A soils in percolation rate. This requirement is to satisfy the subsurface mound installation criteria.
5. Due to the size of the overall project and the amount of sand/fill material to be used on this lot and the others, a minimum of 2 sieve samples are to be collected at each site to demonstrate ASTM c33 or coarse sand specifications.
6. Due to the critical nature of the absorption system area, the designer is to actively supervise the site preparation, layout and construction of the sewage system.
7. The sewage system is to be installed in dry weather.
8. Dig bed of mound by hand or carefully with tractor blade or track hoe. Bottom of bed is to be level and at the same elevation.
9. Fill bed with 3/4 inch to 1-1/2 inch washed rock to a depth of 6 inches.
10. Place lateral distribution lines on washed rock, connect manifold pipe and pump line. All lines should be as level as possible.
11. If applicable, all system pressure regulating valves shall be located within an accessible utility box with a lockable cover accessible at surface grade.
12. Terminate the end of each lateral line with a 90° sweep or flexible PVC pipe with a threaded end and screw cap. Each line end should be placed in a 'Carson'-style box at finish grade for easy access (without digging) for future cleaning. See attached monitoring port construction detail.
13. Operate pump to flush lateral lines before capping. This removes plastic shavings from drilling. Cap ends (threaded caps recommended) of lines and pressure test system for equal distribution of effluent.

AAA Drainfield Designs
17818-29th Dr. S.E.
Bothell, WA 98012
486-8875

Date: 12-Sep-06
Client: Retec - Mackner #0707
County: King

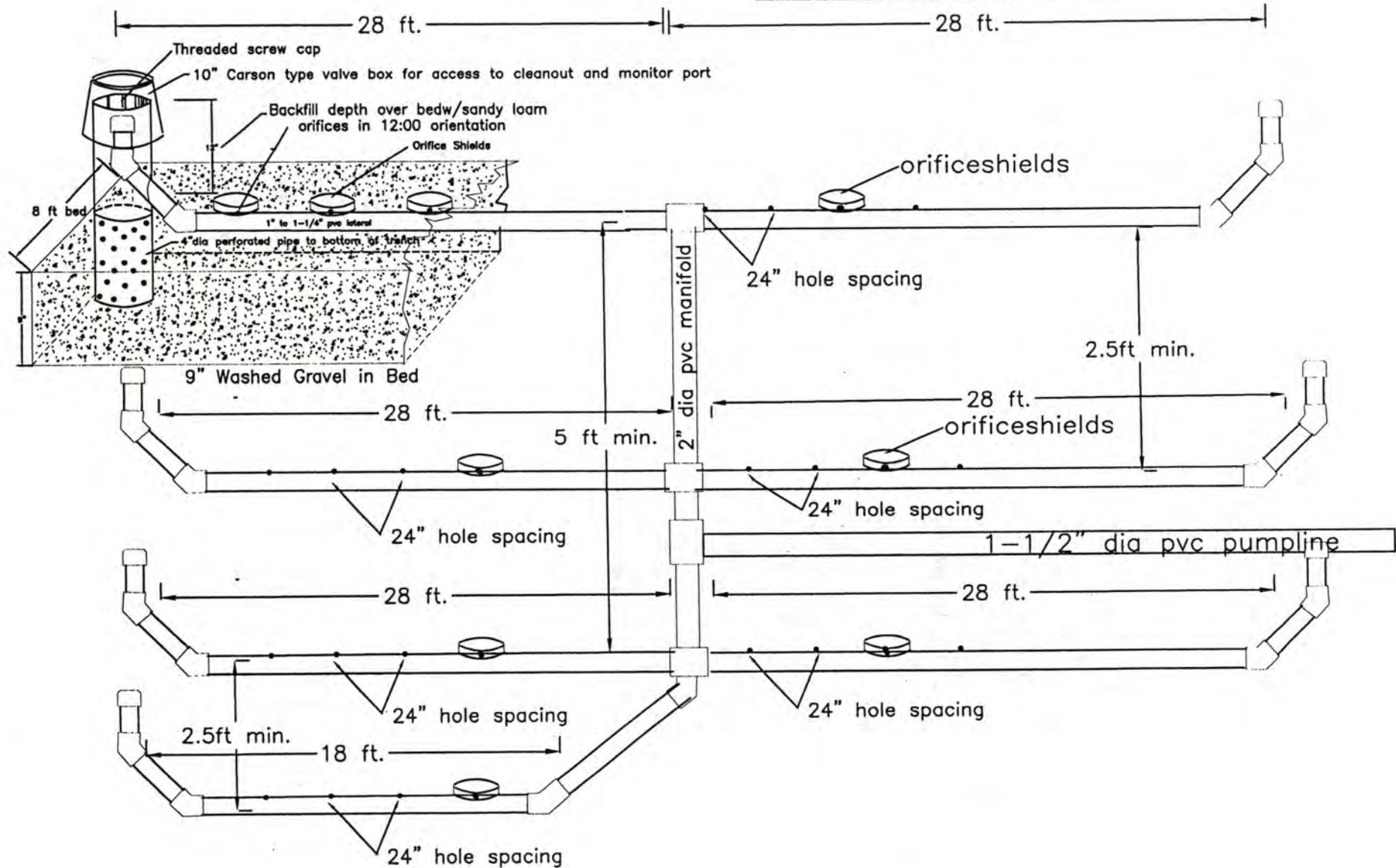
Summary of Sub-Mound System Specifications

	#VALUE!	#VALUE!	0	0
Number Bedrooms:	<u>3</u>			
Flow/Bedroom:	<u>150</u>	GPD		
Original Soil Type:	<u>1A</u>			
Depth of Original Soil:	<u>48</u>	inches		
Soil Application Rate:	<u>1</u>	GPD/sq.ft		
Slope in Primary Mound Site:	<u>0</u>	%		
Fill Material : (ASTM C-33)	<u>Coarse</u>	Sand		
Fill Material Loading Rate:	<u>1</u>	GPD/sq.ft		
Sand Filter Pre-treatment?:	<u>no</u>	yes/no		
Selected Horizontal Gradient:	<u>N/A</u>	: 1		
Transport Pipe Peak Elev.:	<u>100</u>	ft.		
Transport Pipe Length:	<u>75</u>	ft.		
Trans. Pipe Dia. (class 200):	<u>2</u>	in.		
Trans. Pipe Drains ?:	<u>no</u>	yes/no		
Manifold Length:	<u>7.5</u>	ft.		
Manifold Diameter:	<u>2</u>	in.		
Residual Head:	<u>4</u>	ft.		
Septic Tank Outlet Invert Elev:	<u>97</u>	ft. Elev.		
Lateral Elevation:	<u>99.5</u>	ft. Elev.		
Pump Tank Pickup Elev:	<u>92</u>	ft. Elev.		
Dosing Frequency:	<u>18</u>	times/day		
Absorption Bed Dimensions:				
			<u>450</u>	GPD
			<u>450</u>	sq.ft.
			<u>8-10'</u>	ft.
			<u>56</u>	ft.
Mound Dimensions:				
			<u>8</u>	ft.
			<u>56</u>	ft.
			<u>9</u>	inches
			<u>12</u>	in. final
			<u>24</u>	in.
			<u>2</u>	ft.
			<u>2</u>	ft.
			<u>60'</u>	ft.
			<u>12-14'</u>	ft.
Distribution System:				
			<u>1.25</u>	in.
			<u>56</u>	ft.
			<u>2.5</u>	ft.
			<u>3.32</u>	
			<u>2</u>	ft.
			<u>0.1875</u>	in.(3/16")
			<u>15.00</u>	
			<u>up/12:00</u>	
			<u>Yes</u>	
Pump Requirements:				
Total Minimum Capacity:	<u>77.06</u>	GPM		
Total Dynamic Head:	<u>18.04</u>	ft.		
Dose Volume:	<u>25</u>	Gal.		
Pump:	Goulds WE07H, 3/4 hp			
Pump Tank Capacity:	<u>1000</u>	Gal. (min.)		
Estimated Fill Material Volumes:				
Fill: ASTM C-33 Med. Sand	<u>41</u>	Cu.Yds.		
Final Cover: Loamy Sand	<u>27</u>	Cu.Yds.		
Dose Timer Required.				
			<u>0.32</u>	min.
			<u>1.333333333</u>	hrs.

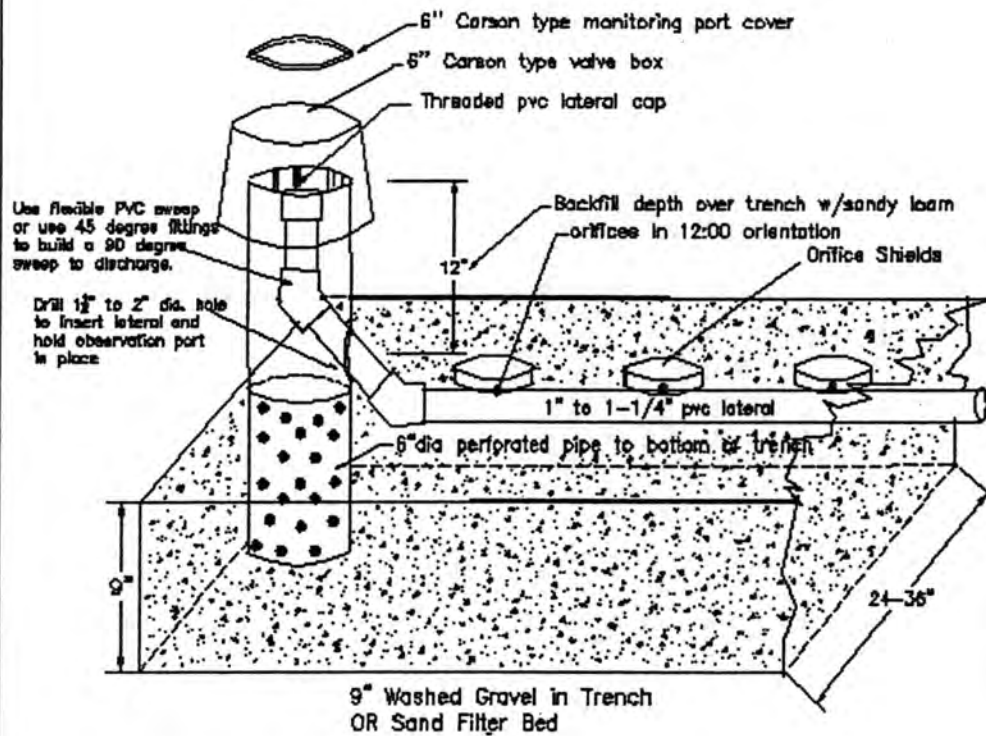
Lateral Detail - Subsurface Mound Bed

Use 45 degree fittings to build 90 degree sweep cleanout

AAA Drainfield Designs, Inc.
Box 12216
Bothell, WA 98082
425-486-8875



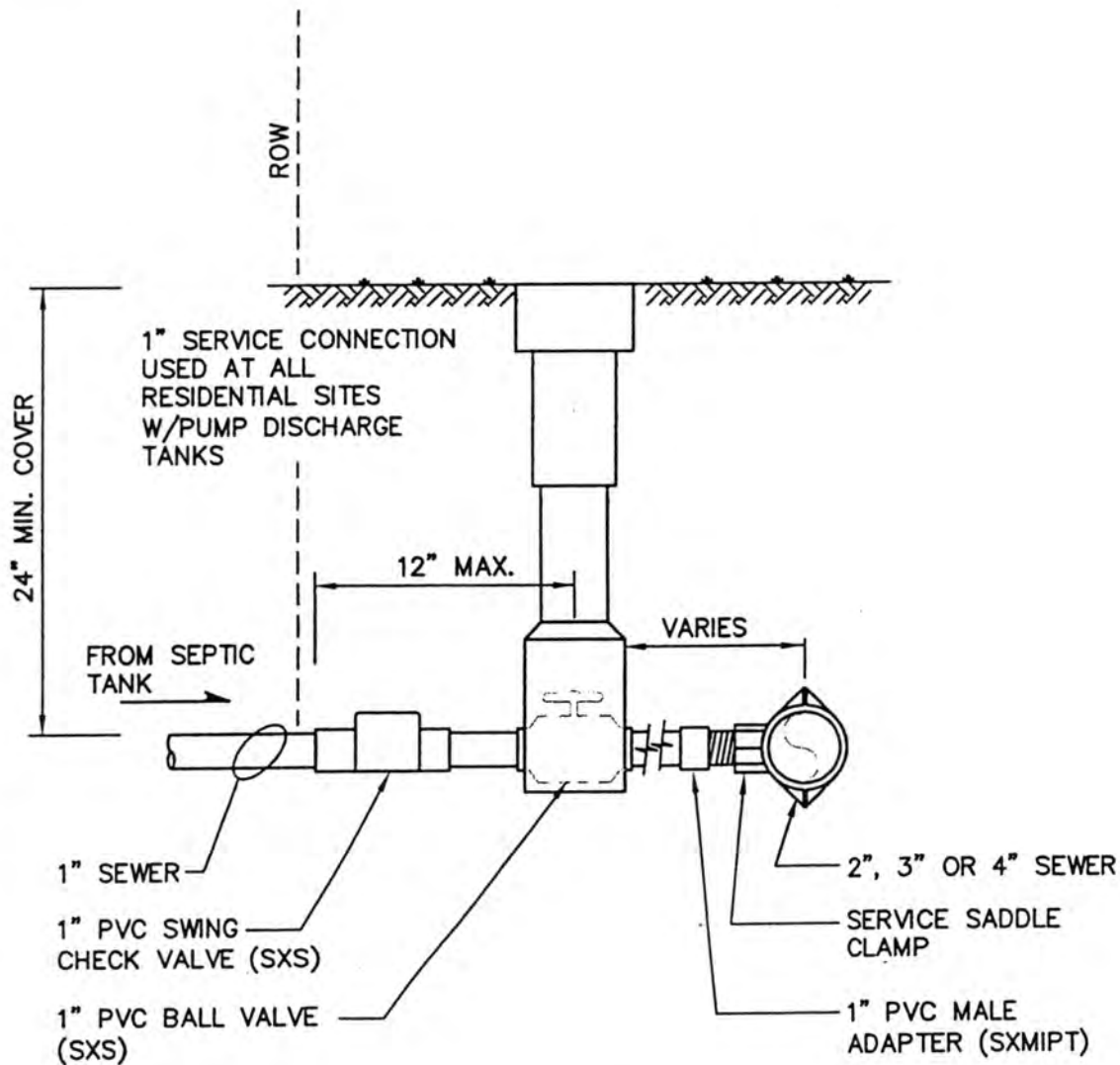
Lateral Cleanout with monitoring port



AAA Drainfield Designs, Inc.
Box 12216
Bothell, WA 98082
425-486-8875

Date: 9/12/2006
Client: RETEC - Mackner
Location: Tax Lot 0707

M:\SKYKOMISH\06579-GENERAL SEWER PLAN\FIGURES\VALE CON DWG. LAYOUT1 10/5/2006 9:24:45 AM, I.L BY: R MEICHO



VALVE CONNECTION

NOT TO SCALE

NOTE: 24" MIN. COVER FOR THE VALVE CONNECTION ASSUMES NO DITCH OR UTILITY CROSSINGS. WHERE A CROSSING EXISTS KING COUNTY ROAD STANDARDS REQUIRE 36" COVER FROM BOTTOM OF DITCH. REFER TO FIGURE 5 FOR UTILITY CROSSING DETAIL.

TOWN OF SKYKOMISH
FIGURE 2
VALVE CONNECTIONS - PUMP CONNECTION


Gray & Osborne, Inc.
CONSULTING ENGINEERS

RETURN ADDRESS

OWNER

Please print neatly or type information
Document Title(s)

NOTICE OF ONSITE SEWAGE SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS

Reference Number(s) of related documents

NA

Additional Reference #'s on page _____

Grantor(s) (Last, First, and Middle Initial)

OWNER

Additional grantors on page _____

✓ **Grantee(s) (Last, First, and Middle Initial)**

The Public

Additional grantees on page _____

✓ **Legal Description (abbreviated form: i.e. lot, block, plot or section, township, range, quarter/quarter)**

Tax Lot 0707, Skykomish, Washington

Additional legal is on page _____

✓ **Assessor's Property Tax Parcel/Account Number: 780780-0707**

Additional parcel #'s on page _____

The Auditor/Recorder will rely on the information provided on this form. The staff will not read the documents to verify the accuracy or completeness of the indexing information provided herein

NOTICE OF ONSITE SEWAGE SYSTEM
OPERATION AND MAINTENANCE REQUIREMENTS

Assessor's Property Tax Parcel/Account Number: 780780-0707

1. I/We (print) _____, are the owners of real property within King County, which is legally described as follows:

Tax Lot 0707, Skykomish, Washington

- 2 The above-described real property is served by an on-site sewage system ("OSS").
- 3 The Code of the King County Board of Health, Section 13.60.005 establishes certain responsibilities of the OSS owner with respect to the operation and maintenance of an On-site Sewage System, as follows:
- A. The OSS owner is responsible for the continuous proper operation and maintenance of the OSS, and shall:
1. Determine the level of solids and scum in the septic tank at least once every three (3) years for residential system with no garbage grinder. Once every year if a garbage grinder is installed and, unless otherwise provided in writing by the health officer, once every year for commercial systems
 2. Employ an approved pumper to remove the septage from the tank when the level of solids and scum indicates that removal is necessary.
 3. Cause preventive maintenance/system performance monitoring inspections to be conducted and any indicated service to be performed by an approved person at a minimum frequency in accordance with Table 13.60-1 (below) unless otherwise established by the health officer or the sewage review committee.
 4. Operate and maintain all OSS in accordance with this title, with pertinent alternative system guidelines issued by the DOH (State of Washington Department of Health) and with the approved OSS owners operating and maintenance instruction manual
 5. Protect the OSS area including the reserve area from:
 - a. Cover by structures or impervious material;
 - b. Surface drainage,
 - c. Soil compaction, for example, by vehicular traffic or livestock; and
 - d. Damage by soil removal and grade alteration.
 6. Maintain the flow of sewage to the OSS at or below the approved design both in quantity and waste strength.
 7. Direct drains, such as footing or roof drains away from the area where the OSS is located.
- B. The owner shall not allow.
1. Use or introduction of strong bases, strong acids or organic solvents into an OSS for the purpose of system cleaning;
 2. Use of a sewage system additive unless it is specifically approved by the DOH, or
 3. Use of an OSS to dispose of waste components atypical of residential wastewater, for example, but not limited to, petroleum products, paints, solvents, or pesticides.
- C. As required by the King County Sewage Review Committee Case # 06-10
1. To reduce hydraulic and organic loading on the system, no garbage grinder shall be installed or maintained in the structure until such time as public sewer serves the property.
 2. To reduce hydraulic and organic loading on the system, any/all laundry washing machines maintained in the house/structure will be restricted to the low water use front loading type appliances.
 3. Upon availability of the future community sewer system (under design), the owner(s) will connect to said system within 6 months of availability. If either of the existing septic or pump tanks is not required for the sewer connection, they shall be properly abandoned/decommissioned per King County Board of Health requirements.

Table 13.60-1 (SEE NOTE (1))

MINIMUM FREQUENCY OF PERVENTIVE MAINTENANCE/PERFORMANCE MONITORING INSPECTIONS

SYSTEM TYPE & WHO MAY PERFORM THE INSPECTION						
Inspection Interval	Conventional Gravity System	Pressure Distribution System	Mound System or Sand Filter System or Sand Filter to Mound System	Aerobic Treatment Unit-ATU System	Non Dis-charging Toilets (6)	Commercial & Food Service Establishments
45 days following approval (2)	N/A	N/A	N/A	OSM or D	N/A	N/A
Every 3 mo.	N/A	N/A	N/A	OSM (5)	SO	N/A
First 6 mo. following approval(2)	SO, D or OSM	OSM or D(3)	OSM or D(3)	N/A	SO	OSM or D
Annually	SO or OSM(4)	OSM or D(4)	OSM or D (3)	OSM (3)	SO(3)	OSM or D
Every 3 yrs	SO,OSM,Dor P	OSM or D (3)	N/A	N/A	N/A	N/A

SO= System Owner D=Original System Designer P=Pumper
OSM=Certified On-site System Maintainer (=see 13.20.035 Health Code)

Table Notes:

- (1) The system components and conditions which must be inspected shall be specified in the approved OSS owner's operation and maintenance instruction manual.
- (2) An initial system performance inspection to insure that the system has been properly designed and installed, is adjusted properly, is being operated correctly and is performing as expected.
- (3) A complete OSS performance monitoring evaluation is to be conducted and a system performance monitoring report, on forms provided by the Health Officer, is to be submitted by the person performing the maintenance inspection to the OSS owner at the time of inspection and to the Health Officer within 30 days of the inspection.
- (4) At least an annual septic tank maintenance check is required if the structure served is equipped with a garbage grinder waste disposal unit. If a screened outlet baffle is present an annual check is recommended. Pumpers shall report each pumping event to the Health Officer in accordance with Chapter 13.68 of the Health Code.
- (5) A quarterly maintenance and monitoring inspection of the ATU is required.
- (6) This monitoring is in addition to that required for the OSS receiving the building's non-toilet waste.

Dated this day of _____, _____
(month) (year)

(Owner's Signature)

(Owner's Signature)

STATE OF WASHINGTON)
COUNTY OF KING) ss

On this _____ day of _____, _____, before me personally appeared _____ and _____, to me known to be the individual(s) described herein and who executed the foregoing instrument as his/her/their free and voluntary act and deed for the uses and purposes herein stated.

Given under my hand and official seal this _____ day of _____, _____.

Notary Public in and for the State of Washington

Residing at _____

My Commission Expires _____

Filing:
Department of Records and Elections
Room 311 County Admin. Building
4th and James
Seattle, WA 98104

Designer

SHIPP, CRAIG

5102204

1. The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3).
2. Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
3. OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Mound Sys. Site Prep	_____	Designer	_____	Date	_____
Mound Sys. Bed Prep	_____	Designer	_____	Date	_____
Pressure Test	52-54	Designer	C. Shipp	Date	1-5-07

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (E.H.D.) have approved (OK'd) to BACKFILL.

OK To Backfill	✓	Disapproved	_____	Date	1-5-07
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Designer	C. Shipp	Disapproved	_____	Date	1-5-07
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OK To Backfill	OK	Disapproved	_____	Date	_____
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E.H.D.	K. Elliott	Disapproved	_____	Date	_____
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Final Cover (Approved)	_____	Disapproved	_____	Date	_____
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Designer	_____	Disapproved	_____	Date	_____
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Corrections Required: (1) Represent w/ Power (2) Sewer Net (3) connect

Public Health
Seattle & King County
Environmental Health Division

(In violation to Alter or Deface this Permit - POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

PERMIT TO INSTALL NEW ON-SITE SEWAGE SYSTEM

Permit No ON0478239
Date issued 12/14/2006
Expires 12/14/2008

System Type	Other
Owner Name	MOORE MICHAEL P
Mag. Type	Single Family
Parcel No	7807800705
Location	705 6TH ST
Plot Name	
Applicant	A Wesco Septic, Inc
Inspector	Burt, Lewis

(425)486-3160

Designer:

SHUCK, CRAIG

5100204

- 1 The installer must perform all work in accordance with Title 10 (Board of Health Rules and Regulations 80)
- 2 Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
- 3 OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Mound Sys. Site Prep	_____	Designer	_____	Date	_____
Mound Sys. Bed Prep	_____	Designer	_____	Date	_____
Pressure Test	<u>56"</u>	Designer	<u>C. Shuck</u>	Date	<u>1-5-06</u>
Do Not BACKFILL (Cover system until BOTH Designer and Health Department (E.H.S.) have approved (OK'd) to BACKFILL					
OK To Backfill	<u>✓</u>	Disapproved	_____	Date	<u>1-5-06</u>
Designer	<u>C. Shuck</u>	Disapproved	_____	Date	<u>1-5-07</u>
OK To Backfill	<u>OK</u>	Disapproved	_____	Date	<u>1-5-07</u>
E.H.S.	<u>K. Elliott</u>	Disapproved	_____	Date	_____
Final Cover (Approved)	_____	Disapproved	_____	Date	_____
Designer	_____	Disapproved	_____	Date	_____

Corrections Required

① Pressure test w/Per. Pump ② Sewer test ③

(See reverse side for more corrections)

I, _____, (Master/Associate) Installer was present at the above property
supervising placement of final cover. Time _____ Date _____

I have complied with all the restrictions and recommendations as stated by the system designer, and certify that either I, or A Certified Installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Signature of Master Installer

Leahs Bent
Shuck Bent

Date 1-5-07

02-2007 FRI #0

Deface this Permit — POST ON JOB SITE
TRANSFERABLE

Permit No ON0078651

TIC PRMT 17 320.00

Date Issued 02/02/2007

CK 320.00

Expires 01/24/2009

1
IA 8293 10:26TM

ON-SITE SEWAGE SYSTEM

Locality
LYKOMISH SCHOOL DIST 404

Bldg. Type
Parcel No
Location
Plat Name

5060800005
105 6TH ST N

Const. Type R
Valid By EE0100089
Lot Number

Applicant A Wesco Septic, Inc.

(425)486-3160

Installer Bunt, Lewis

MI176

Designer:

1. The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3)
2. Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
3. OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT.

Mound Sys. Site Prep	_____	Designer	_____	Date	_____
Mound Sys. Bed Prep	_____	Designer	_____	Date	_____
Pressure Test	_____	Designer	_____	Date	_____

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (E.H.S.) have approved (OK'd) to BACKFILL.

OK To Backfill	_____	Disapproved	_____	Date	_____
Designer	_____				

OK To Backfill	_____	Disapproved	_____	Date	_____
E.H.S.	_____				

Final Cover (Approved)	_____	Disapproved	_____	Date	_____
Designer	_____				

Corrections Required _____

(See reverse side for more corrections)

I, Lewis Bunt (Master/Associate) Installer was present at the above property
supervising placement of final cover. Time _____ Date 2-5-07

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified Installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Lewis Bunt
Lewis Bunt

Date 2-5-07

Signature of Master Installer



Public Health
Seattle & King County
Environmental Health Division

Unlawful to Alter or Deface this Permit — POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

Permit No **ON0078240**
Date Issued **12/14/2006**
Expires **12/14/2008**

PERMIT TO REPAIR ON-SITE SEWAGE SYSTEM

System Type **Other**
Owner Name **RETEC GROUP, INC**
Bldg. Type **Single Family**
Parcel No **7607800750**
Location **750 5TH ST N**
File Name

Cond. Type **R**
Valid By **EE0100094**
Lot Number

Applicant **A Wesco Septic, Inc**

(425)486-3160

Installer **Burt, Lewis**

MI176

1. The installer must perform all work in accordance with Title 13 (Board of Health Rules and Regulations #3)
2. Issuance of this permit does not constitute an approval of the site or work contemplated or performed.
3. OCCUPANCY OF THE BUILDING AND USE OF THE SEWAGE DISPOSAL SYSTEM ARE PROHIBITED UNTIL AN AS-BUILT PLAN IS SUBMITTED TO AND APPROVED BY THE HEALTH DEPARTMENT

Manual Sys. Site Prep _____ Designer _____ Date _____

Manual Sys. Bed Prep _____ Designer _____ Date _____

Pressure Test _____ Designer Craig Shuck Date 1-5-07

Do Not BACKFILL (Cover) system until BOTH Designer and Health Department (R.H.D.) have approved (O.K'd) to BACKFILL.

OK To Backfill _____ Disapproved _____ Date 1-5-07

Designer: Craig Shuck Disapproved _____ Date 1-5-07

E.H.S. OK Disapproved _____ Date _____

Final Cover (Approved) _____ Disapproved _____ Date _____

Designer _____ Disapproved _____ Date _____

Comments Required

(1) new sewer line completed to front of house (2) sewer laterals (3) back-
fill system to street. (4) Repressure vent w/Perm. Power.

(See reverse side for more comments)

I, _____ (Master/Assistant) Installer was present at the above property

supervising placement of final cover. Time _____ Date _____

I have complied with all the restrictions and recommendations as listed by the system designer, and certify that either I, or A Certified Installer employed by me, was present AT ALL TIMES during the installation.

Name of Master Installer (please print)

Signature of Master Installer

Craig Shuck
Mike Bull

Date 1-5-07



Public Health
Seattle & King County
Environmental Health Division

Unlawful to Alter or Deface this Permit - POST ON JOB SITE
PERMIT IS NON-TRANSFERABLE

PERMIT TO INSTALL NEW ON-SITE STORAGE SYSTEM

System Type Other
Owner Name MACHINER INC
Single Family 1-CHAMALOTTE

Permit No

780780000

Address

707 6TH ST

Location

707 6TH ST

First Name

A. W. W. W. W.

Applicant

A. W. W. W. W.

Permit No

780780000

Address

707 6TH ST

Location

707 6TH ST

First Name

A. W. W. W. W.

Applicant

A. W. W. W. W.

Permit No

780780000

Address

707 6TH ST

Location

707 6TH ST

First Name

A. W. W. W. W.

Applicant

A. W. W. W. W.

Permit No

780780000

Address

707 6TH ST

Location

707 6TH ST

First Name

A. W. W. W. W.

Applicant

A. W. W. W. W.

Permit No

780780000

Address

707 6TH ST

Page 1 of 1

(225) 485-3160

Lot Number

Valid By

Cont. Type

Valid By

Cont. Type

Valid By

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ON0078238

12/14/2005

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12/14/2005



Seattle & King County

HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Dorothy F. Teeter, MHA, Interim Director and Health Officer

January 4, 2007

Craig Shuck
AAA Drainfield Designs
Box 12216
Bothell, WA 98082

Re: Pressure Test without Permanent Power

Address: T.L. 0705, 6th St. N., Skykomish **Activity:** ON0077708
Parcel No: 7807800705, 7807800706
Owner: Michael Moore via RETEC Group, Inc.

Dear Mr. Shuck:

Public Health has received your request for pressure testing prior to permanent power being available. Your request has been granted contingent upon the following:

1. After successful testing without permanent power, the ends of lines and valve adjustment points as well as access to the septic tank and pump tank shall remain uncovered until successful re-testing with permanent power has been completed.
2. The system shall be scheduled for a re-test and Public Health notified once permanent power becomes available. Notification shall be a minimum of three (3) working days prior to the re-test.
3. A \$165.13 re-inspection fee is required.
4. If Public Health is unable to attend the re-inspection, the designer will provide documented proof the system was successfully re-tested with the final as-built submission.
5. The residence shall not be re-occupied until Public Health has given final approval of the as-built.

If you have any questions, please contact me at (206) 296-9739 between the hours of 8:00 AM and 5:00 PM or leave a message on my voice mail.

Sincerely,

Ken Elliott, R.S.
Health and Environmental Investigator II
Community Environmental Health

Eastgate Environmental Health
14350 SE Eastgate Way • Bellevue, WA 98007
T 206-296-4932 F 206-296-4919
www.metrokc.gov/health

City of Seattle
Gregory J. Nickels, Mayor

King County
Ron Sims, Executive

Craig Shuck
January 4, 2007
Page 2

KE:vo

cc: RETEC Group, Inc.
Michael Moore



Public Health

Seattle & King County

HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Dorothy F. Teeter, MHA, Interim Director and Health Officer

January 4, 2007

Craig Shuck
AAA Drainfield Designs
Box 12216
Bothell, WA 98082

Re: Pressure Test without Permanent Power

Address: T.L. 0707, 6th St. N., Skykomish **Activity:** ON0077710
Parcel No: 7807800707
Owner: Robert Mackner via RETEC Group, Inc.

Dear Mr. Shuck:

Public Health has received your request for pressure testing prior to permanent power being available. Your request has been granted contingent upon the following:

1. After successful testing without permanent power, the ends of lines and valve adjustment points as well as access to the septic tank and pump tank shall remain uncovered until successful re-testing with permanent power has been completed.
2. The system shall be scheduled for a re-test and Public Health notified once permanent power becomes available. Notification shall be a minimum of three (3) working days prior to the re-test.
3. A \$165.13 re-inspection fee is required.
4. If Public Health is unable to attend the re-inspection, the designer will provide documented proof the system was successfully re-tested with the final as-built submission.
5. The residence shall not be re-occupied until Public Health has given final approval of the as-built.

If you have any questions, please contact me at (206) 296-9739 between the hours of 8:00 AM and 5:00 PM or leave a message on my voice mail.

Sincerely,

Ken Elliott, R.S.
Health and Environmental Investigator II
Community Environmental Health

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14350 SE Eastgate Way • Bellevue, WA 98007
T 206-296-4932 F 206-296-4919
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City of Seattle

Gregory J. Nickels, Mayor



King County

Ron Sims, Executive

Craig Shuck
January 4, 2007
Page 2

KE:vo

cc: RETEC Group, Inc
Robert Mackner



Public Health

Seattle & King County

HEALTHY PEOPLE. HEALTHY COMMUNITIES.

Dorothy F. Teeter, MHA, *Interim Director and Health Officer*

January 4, 2007

Craig Shuck
AAA Drainfield Designs
Box 12216
Bothell, WA 98082

Re: Pressure Test without Permanent Power

Address: T.L. 0750, 5th St. N., Skykomish **Activity:** ON0077964
Parcel No: 7807800750
Owner: Richard Mitchell via RETEC Group, Inc.

Dear Mr. Shuck:

Public Health has received your request for pressure testing prior to permanent power being available. Your request has been granted contingent upon the following:

1. After successful testing without permanent power, the ends of lines and valve adjustment points as well as access to the septic tank and pump tank shall remain uncovered until successful re-testing with permanent power has been completed.
2. The system shall be scheduled for a re-test and Public Health notified once permanent power becomes available. Notification shall be a minimum of three (3) working days prior to the re-test.
3. A \$165.13 re-inspection fee is required.
4. If Public Health is unable to attend the re-inspection, the designer will provide documented proof the system was successfully re-tested with the final as-built submission.
5. The residence shall not be re-occupied until Public Health has given final approval of the as-built.

If you have any questions, please contact me at (206) 296-9739 between the hours of 8:00 AM and 5:00 PM or leave a message on my voice mail.

Sincerely,

Ken Elliott, R.S.
Health and Environmental Investigator II
Community Environmental Health



City of Seattle

Gregory J. Nickels, Mayor



King County

Ron Sims, Executive

Craig Shuck
January 4, 2007
Page 2

KE:vo

cc: RETEC Group, Inc.
Richard Mitchell

Asbestos Documentation

ASN-4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Portland at (503) 229-5364, Salem at (503)378-8240 ext. 272, Medford at (541)776-6010 ext 235, or Bend at (541)388-6146 ext. 226, OR call (800)452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor - Facility -Operator)

- Asbestos removal site name and address: BNSF Railway
105 & 120 N 6th St. Skykomish WA. Snohomish 98288
 Street City/State County Zip
 Contact person: _____ Phone: _____
- Operator's name and address: RMCAT ENVIRONMENTAL
12823 NE AIRPORT WAY PORTLAND OR MULTNOMAH 97230
 Street City/State County Zip
 Phone: 503-408-7404
- Waste disposal site: Hillsboro Land fill
Minters bridge rd Hillsboro
 Street City/State County Zip
 Describe asbestos materials: CAB & TSI pipe insulation
 Containers: Number: 10 Type 6 mil Double
- Total quantity (cubic yards) 1

- OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to government regulations. All movements of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Name: Ricardo Tello Company: RMCAT ENVIRONMENTAL
 Signature: [Signature] Date: 6/29/06

TRANSPORTER(S):

- Transporter #1: (Acknowledgement of receipt of materials)
 Agent: Ricardo Tello Company: RMCAT ENVIRONMENTAL
 Address: 12823 NE AIRPORT WAY PORTLAND OR. 97230 Phone: 503-408-7404
 Signature: _____ Date: 6/29/06
- Transporter #2: (Acknowledgement of receipt of materials)
 Agent: _____ Company: _____
 Address: _____ Phone: _____
 Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in Item 11 below)

- Waste Disposal Site: Hillsboro Landfill
 Name and Title: _____ Date: _____
 Signature: _____ HILLSBORO LANDFILL, INC. Phone: 503-640-9427
RANDY MOERGEL, OPERATIONS
(503) 640-9427

- DISCREPANCY SPACE:** (Add attachments as needed):

JUN 29 2006

Randy Moergel

JSE Laboratory, Inc.
3325 SE Harrison Street
Milwaukie, Oregon 97222
p: 503 659 8338 f: 503 659 7577

USACE - Bonneville Dam
Project: RETEC
Project ID: 92812
Batch #: 061337

AIR SAMPLE INVENTORY

JSE Client #: 02114

Report Date: 07/06/2006

SAMPLE TYPE	DESCRIPTION	LOCATION	FIBER ANALYSIS
1 AA-061337	6/27/2006 Personal sample Gildardo VE	Glovebag TSI pipe insulation	<LOD
2 AA-061338	6/27/2006 Personal sample R Novak	CAB removal	<LOD

8-Hour Time Weighted Average

TWA		Total Time:	150	TWA:	<LOD
1 AA-061337	6/27/2006 Personal sample Gildardo VE Glovebag TSI pipe insulation				
TWA		Total Time:	180	TWA:	<LOD
2 AA-061338	6/27/2006 Personal sample R Novak CAB removal				

FINAL REPORT

ASBESTOS REMOVAL PROJECT

**Lyderson Property
EMR Project No. 7625.001
Skykomish, WA**

**FOR
BURLINGTON NORTHERN SANTA FE RAILWAY
CORPORATE INDUSTRIAL HYGIENE
FORT WORTH, TEXAS**



May 2006

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SECTION I

EMR PROJECT COMPLETION SHEET

EMR presents Section I to provide the project completion sheet, which identifies site location, listing of ACM removed and waste disposal site at: Lyderson Property - EMR Project No. 7625.001, Skykomish, WA.

Project No.: 7625.001 Date of Completion: 5/18/06 BNSF Work Order No.: _____

Project Name: Lyderson Property

Address/Location: 303 Riverview Ave, Skykomish, WA.

EMR Project Site Manager (s): Mike McKay Signature: Mike McKay

☒ Asbestos Removal Contractor: IRS Environmental

☒ Contractor Supervisor Name: Yuri Belko Signature: Yuri Belko

BNSF Site Contact Name: Bruce Sheppard Signature: [Signature]

BNSF Site Contact Person Inspected Project Site Upon Completion? (check one): Yes: _____ No: X

If not inspected, comments/reason: Not available

ACM Waste Disposed at (Landfill name/location): Arlington, OR.

Dates of Work: 5/18/06 No. of Work Days to Complete Project: one

Listing of ACM Removed (see Sections 01010 and 01013 from Specifications Documents; report in linear feet, square feet, no. of fittings, etc.)

Sample No.	Material Description	Location	Quantity Removed	Actual Quantity Remaining**	Reason for Removal*
<u>SKWA-LHB</u> <u>008</u>	<u>Transite siding</u>	<u>Exterior walls</u>	<u>1280 sq</u>	<u>0</u>	<u>Demo</u>

* Reasons for removal are: D=removal required for demolition of building (this does not include demolition of inactive systems in a building that will remain standing); R= removal required prior to renovation; P=removal as a part of the planned system-wide removal of ACM in the workplace.
** If material is left in-place please, list location

FAXE
16-1404U
70Candi

ASBESTOS NOTICE POSTINGS: Removed (all ACM abated) Yes X
New Posting Required Yes _____
Old Posting Removed Yes X

No _____
No X
No _____

SECTION II

SECTION 01010 – SCHEDULE OF WORK

EMR presents Section II to provide the schedule of work for the asbestos removal project at: Lyderson Property - EMR Project No. 7625.001, Skykomish, WA.

Section 01010 – Schedule of Work

Part 1 – General

The BNSF Railway Lyderson House is scheduled for demolition. The house will not be occupied, but the areas beyond the work area control barriers will be occupied during the proposed asbestos removal project. The building is located at approximately 303 Riverview Avenue in Skykomish, Washington. Restrict access to the area as required. Coordinate and cooperate with the owner and his staff to keep disruptions to a minimum. Schedule work activity to complete the projects as soon as possible. It is essential that asbestos removal projects be completed within the scheduled time period. The Owner's Representative and Project Manager are:

EMR, Inc.
Mr. Ric Cook, Program Manager
Mr. Mike McKay, Site Project Manager
3200 Haskell Avenue, Suite 140
Lawrence, KS 66046
☎ (785) 842-9013 ext. 137
✉ (785) 749-2108

All project correspondence shall be forwarded through the above address. The project is being performed for Burlington Northern Santa Fe Railway.

The company asbestos manager is:

Ms. Jennifer Anderson
Manager Environmental Operations
BNSF Railway
2454 Occidental Avenue So., #1A
Seattle, WA 98134
☎ (206) 625-6034
✉ (206) 625-6007

The project is being performed under a Work Order Authorization to the Master Services Agreement between the successful bidder and BNSF.

The site address is:

BNSF Railway – Lyderson Property
303 Riverview Avenue
Skykomish, WA 98288

The railroad company site contact is:

Mr. Bruce Sheppard
Manager Environmental Remediation
BNSF Railway
2454 Occidental Avenue So., #1A
Seattle, WA 98134
☎ (206) 625-6035

Coordinate daily activities and building operations with the railroad company site contacts.

BNSF may have personnel working in areas beyond the project perimeter during the course of this project. It is essential that the contractor coordinate daily activities with BNSF site personnel. The contractor shall provide all state and federal notifications required of the building owner and others as required. **The contractor shall comply with BNSF'S "Safety Rules and General Responsibilities" for all outside contractors. BNSF safety regulations while on company property include, but are not limited to using proper fall protection, wearing of approved hard hats, safety glasses, steel toe footwear & high visibility vest by all personnel on the work-site.**

IMPORTANT ISSUE!!!!!!!!!! Supervisor and Workers will not be allowed on railroad property if not certified under the BNSF's Contractor Orientation Program (see below). If the contractor is found to be non-compliant, they will be told to leave the property. The contractor will incur all costs affecting the delay of the project

Contract labor workers performing work on BNSF property must have undergone BNSF Contractor Orientation prior to working on any BNSF property. The presence of workers within 25 feet of any rail outside of a building must be specifically authorized by the local Roadmaster. All such authorizations should be coordinated by the Owner's Representative (EMR). All workers must possess an identification card documenting their individual completion of the orientation program. BNSF Contractor Orientation is available on the Worldwide Web at www.contractororientation.com.

Part 2 – Scope

1. The following asbestos-containing materials are known to be present at the work site and are included in the scope of this project. If any other materials are found which are suspected of containing asbestos, notify immediately the Owner's Representative. All of the identified asbestos-containing materials and debris are to be removed.

Lyderson Property – Abandoned House - Skykomish, Washington (EMR Project # 7625.001)

PRIMARY SCOPE OF WORK

- Remove approximately 1,280 S.F. of transite siding or concrete asbestos board (CAB) and underlying felt from the exterior of the house on both first and second floors. All siding and felt must be removed down to bare wood. **Sample #SKWA-LHB-008 (30% Chrysotile)**

Non-Friable Removal Procedures (transite shingle siding):

- Prior to placing poly drop sheets around perimeter, pick up minor debris on ground and place in disposal bags.
- Position roll-off box/dumpster double-lined with 6-mil poly for staging debris.
- Lay down 6-mil poly drop sheet around perimeter of building approximately 8 feet wide.
- Set up caution tape perimeter (at a minimum at outside edge of poly drop sheet).
- Scaffolding should be used to remove transite shingle siding. A mechanical lift will be required to access second floor and upper side walls. Roof edge is approximately 15 feet above ground surface.
- Roof peak is approximately 22 feet above ground surface.
- Wet transite siding material and felt to be removed; remove mostly intact; keep debris wet, bag debris; and place disposal bags in roll-off box/dumpster.
- Roll-off box/dumpster is to be removed from site immediately following job completion.

Project-Specific Notes:

- Power and water are NOT available. Contractor must provide adequate backup generator power to run abatement equipment and Owner's Representative's air pumps for area sampling. Adequate water must be provided for continuous wetting of material prior to and during removal.
- The house is on a city street and private driveway. Do not block the roadway except during unloading of equipment.
- Roof elevation is 15 feet at perimeter; 22 feet at peak; appropriate fall protection must be worn during removal to include fall arresting rope, tie-off hooks and full body harness/lanyards.
- The transite siding has an underlying felt. Remove all transite and underlying felt down to bare wood.
- Work may be conducted during normal daylight business hours.
- Workers will wear all appropriate PPE.
- Pre-clean the exterior work area per Section 01013, Part 1- General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title a-2: Pre-cleaning of Exterior Areas.
- Isolate the work area per Section 01013, Part 1-General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title b-2: Isolation of Exterior Areas.
- Prepare a work area enclosure per Section 01013, Part 1 – General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title c-5: Preparation of Exterior Areas-Non-Friable Removal.

2. Contractor shall comply with all federal, state, and local notification requirements.
3. The quantity of material to be removed is to be verified by the contractor.
4. All pre-cleaning shall be conducted prior to setting up containment barriers. Pre-cleaning shall consist of HEPA vacuuming and wet wiping all surfaces.
5. Contractor shall conduct removal procedures in all functional areas in a “state-of-the-art manner.” All asbestos containing materials and asbestos-contaminated debris as listed above shall be removed from the work areas and properly disposed of as asbestos-containing material.
6. Owner Representative will be on-site to oversee project to insure compliance with specification and regulations during removal activity.
7. Air monitoring is required for this project and will be provided by the owner’s representative. No work shall be conducted without the owner’s representative present on-site.
8. Make sure all signs and project barriers are maintained throughout the duration of the project.
9. Contractor shall only proceed in work areas as scheduled and/or authorized by Owner and Owner's Representative. Changes in the work schedule shall be made by written communication.
10. Contractor shall lock out and/or isolate electrical lighting and outlets of each work area with the assistance of a BNSF electrical employee. The contractor shall not lock out and/or disconnect any electrical in the work area without BNSF assistance to avoid disruption of critical service (computers, signals, phone, radio, etc.). There may be phone lines, computer lines, etc. located in the work areas that must be handled with care so as not to disrupt service.
11. The contractor will be responsible for covering and/or removing equipment required to conduct removal activity. The contractor shall work closely with the building owner’s representative to minimize work disruptions.

Remove all asbestos materials by the methods listed above following the state-of-the-art procedures of the asbestos industry (see Sections 01013, 01560, 01561, 01526, 01527). All asbestos-containing and/or contaminated materials shall be properly removed and disposed of as asbestos waste.

Part 3 – Schedules

The work is tentatively scheduled to be performed May 18-19, 2006.

Part 4 – Disposal

Disposal of all asbestos containing material shall be disposed at a regulated asbestos landfill designated as a licensed asbestos disposal site for all asbestos containing material removed under these specifications. All asbestos waste must be manifested to the licensed asbestos landfill and waste disposal records shall be a part of final reports submitted to EMR.

Part 5 – Project monitoring and air monitoring hours:

The Owner Representative will provide third-party air monitoring services. Coordinate project activities with the Owner’s Representative to facilitate air monitoring services. Air monitoring for this project shall include air sampling and monitoring of work areas during project execution. No air clearance monitoring is required based on the exterior nature of the work. The owner’s representative will provide for air monitoring of project personnel and provide results to the contractor on a daily basis. No abatement work activity shall be allowed without air monitoring being conducted. The Owner’s Representative will conduct the air sampling and monitoring during all hours that the Contractor’s personnel are on the project site, during pre-abatement setup, abatement activities, final clearance and enclosure removal and cleanup. The daily project air sampling will be the responsibility of the air monitoring technician on a per shift basis.

The Owner's Representative has authority over daily scheduling and progression of work through completion of project. The Contractor's work crew shall work shifts as necessary on the project site to complete the project on the prescribed time schedule. The Contractor shall provide the Owner's Representative with advance notice of anticipated work schedule.

CM sampling and on-site analysis will be utilized for the air monitoring of this project, unless otherwise directed by the state regulatory agency. Final air clearance for the project work area shall be a contamination level within the work area that is less than or equal to 0.01 fibers per cubic centimeter (0.01 f/cc) by the NIOSH 7400 method.

END OF SECTION 01010

SECTION III

SECTION 01013 – SUMMARY OF WORK

EMR presents Section III to provide the Summary of Work, which describes the work activity required as part of the asbestos removal at: Lyderson Property - EMR Project No. 7625.001, Skykomish, WA.

Section 01013 – Summary of work — asbestos abatement

Part 1 – General

Related documents:

Drawings, general provisions of the Contract, including Supplementary Conditions, and other Division-1 Specification sections, apply to work of this section.

Project/work identification:

General: Project name is Asbestos Removal Project, BNSF Railway, Project #7625.001, Lyderson Property House, Skykomish, Washington as shown on Contract Documents prepared by Owner's asbestos abatement design representative, EMR, Inc., Redmond, Washington, Project Specifications.

Contract documents: Indicate the work of the contract and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to the following:

- Applicable codes and regulations
- Washington Asbestos Control Program Regulations.
- Notices and permits
- Existing site conditions and restrictions on the use of the site
- Work performed prior to work under this Contract
- Work to be performed subsequent to work under this Contract
- EMR, Inc. — Asbestos Abatement — General Specifications

The work includes removal of all listed ACM and disposal of all asbestos materials according to the following specifications in the sequence indicated.

General and Administrative Requirements: are set forth in the following specification sections:

- 01010 — Schedule of Work
- 01013 — Summary of Work
- 01043 — Project Coordination
- 01091 — Definitions and Standards
- 01301 — Submittal
- 01313 — Schedules and Reports
- 01601 — Materials and Equipment
- 01632 — Products Substitutions
- 01701 — Project Closeout

Abatement Work: requirements are set forth in the following sections, listed here according to the sequence of the work:

01092 — Applicable Codes, Asbestos Abatement: sets forth governmental regulations if more stringent and industry standards which are included and incorporated herein by reference and made a part of the specification. This section also sets forth those notices that either must be applied for and received, or which must be given to governmental agencies before start of work.

SPECIAL NOTE: Federal and State asbestos regulations supersede any requirements of these specifications. The contractor's certified supervisor shall be required to have a copy of State regulations and project notice at the project site, as required.

01410 — Test Laboratory Services: describes air monitoring by owner so that the building beyond the work area will remain uncontaminated. Air Monitoring to determine required respiratory protection is the responsibility of the Contractor.

01503 — Temporary Facilities: sets forth the support facilities needed such as electrical and plumbing connections for the decontamination unit.

01513 — Negative Pressure System: A local exhaust system, utilizing HEPA filtration capable of maintaining a negative pressure inside the work area and a constant air flow from adjacent areas into the work area and exhausting that air outside the work area. sets forth the procedures to set up the negative air machines and ventilation of the work area.

01526 — Temporary Enclosures: describes sequence of work for building of an enclosure, control access, and extension of work area.

01527 — Local Area Protection: Preparing a work area for removal using glovebags, mini-enclosure, non-friable removal, and controlled access work environment.

01560 — Worker Protection: This section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection.

01561 — Worker Protection, Repair & Maintenance: Describes the equipment and procedures for protecting workers against asbestos contamination and other workplace hazards in repair, maintenance, glovebag and non-friable asbestos material activities.

01562 — Respiratory Protection: Instruct and train each worker involved in asbestos abatement or maintenance and repair of friable asbestos-containing materials in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face.

01563 — Decontamination Units: explains the setup and operation of the personnel and material decontamination units.

Asbestos Removal Work Procedures: are described in the following specification sections:

02081 — Removal of Asbestos-containing Materials

02084 — Disposal of Asbestos-containing Materials

Decontamination of the Work Area: after completion of abatement work is described in the following sections:

01701 — Project Closeout: details the closeout procedures to end the project once abatement work is complete including final paperwork requirements.

01711 — Project Decontamination: describes the sequence of cleaning and decontamination procedures to be followed during removal of the sheet plastic barriers isolating a work area. Provides for certificates of visual inspection documentation.

01712 — Cleaning and Decontamination Procedures: sets forth procedures to be used on contaminated objects and rooms which are not part of an abatement work area.

01714 — Work Area Clearance: describes the analytical methods used to determine if the work area has been successfully cleaned of contamination.

A. Personnel Submittal

1. The contractor and all workers must be trained and AHERA certified as evidenced by participation and successful completion of a training course, offered by and EPA or State endorsed educational institution. (Submittal of Copies of Certifications — Required — State Government issued Asbestos certifications will satisfy requirements of this section).
2. Submit certification to the Owner's Representative indicating that each employee has had instruction on the hazards of asbestos exposure, the use and fitting of respirators, protective dress, use of showers, entry and exit from all work areas, and on all aspects of work procedures and protective measures as specified herein and that each employee understands this information. Use the "Certificate of Worker's Acknowledgment" located at the end of this section.
3. Submit evidence of required physical examinations.

B. Respiratory Protection Systems

1. The Contractor will provide all his personnel, including workers, supervisors, and management personnel respiratory protection equipment. The equipment provided shall be approved by NIOSH and accepted by OSHA for the use in

atmospheres containing asbestos fibers. The contractor shall only allow those individuals that are licensed by the State and carrying an active state approved certification card and properly suited in protective clothing and respiratory protection as approved by the contractor to enter the project area.

- 2. Quantitative or qualitative fit tests and training is a requirement for the use of on site respiratory equipment.
- 3. The table RS-PF-I shall be utilized to determine the level of respiratory protection that shall be utilized during this project. At any time the maximum airborne fiber concentration outside the respirator is exceeded the next level of protection shall be required to be utilized immediately.

Required Minimum Respirator Selection for This Project

TABLE RS - PF - I

Respirator Selection	Protection Factor	Airborne fiber concentration outside respirator
High-efficiency cartridge filter type (half face)	10	0.01 to 0.1 fiber/cc
High-efficiency cartridge filter type (full face)	50	0.1 to 0.5 fibers/cc
Powered-air purifying (PAPR) (tight fit half or full face)	100	0.5 to 1.0 fiber/cc
Type C continuous flow supplied air half mask	100	0.5 to 1.0 fiber/cc
Type C continuous flow supplied air full face or hood	100	0.5 to 1.0 fiber/cc
Pressure-demand Type C (full face respirator)	1,000	0.5 to 2.0 fiber/cc

The type of respiratory protection utilized each day of work on this project shall be so noted on the daily logs.

- 5. Maintain an average airborne fiber count in the work area of less than 0.5 fiber/cc. If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts.

At any time airborne fiber counts exceed 1.0 fiber/cc for any period of time, *cease all work*. Notify the Owner's Representative immediately. Do not recommence work until authorized by the Owner's Representative of changes in work procedures to lower fiber counts.

- 6. All personnel will be assigned individual face pieces and corresponding units with unique identification numbers.
- 7. Individuals will be thoroughly trained in maintenance, repair and decontamination of respirators utilized on this project.
- 8. All respirators used on this project shall comply with the requirements of Section 01562.

C. Personnel Protection

- 1. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and accepted by OSHA. All work on this project shall be performed in compliance with the Table RS - PF - I in B - 3 this section.
- 2. Provide workers with sufficient sets of protective full body clothing (such as headgear, full body coveralls, footwear, etc.). Provide hard hats as required by applicable safety regulations. Reusable type protective clothing and footwear intended for reuse shall be left in the contaminated equipment room until the end of the asbestos abatement work, at which time such items shall be decontaminated and placed in sealed bags for transfer to the next work site. Disposable type protective clothing shall not be allowed to accumulate and shall be bagged and disposed of as asbestos contaminated waste. See Paragraph D-9.
- 3. Provide authorized visitors with suitable protective clothing, headgear, and footwear as described in Paragraph C-2, whenever they are required to enter the work area.

D. Material and Equipment

1. Deliver all materials in the original package, container, or bundles bearing the name of the manufacturer and the brand names.
2. Store all materials subject to damages off the ground, away from wet or damp surfaces and under cover sufficient to prevent damage or contamination.
3. Damaged or deteriorating materials shall not be used and shall be removed for the premises. Material that becomes contaminated with asbestos shall be disposed of in accordance with the applicable regulations.
4. Submit manufacture's certification that vacuums, negative air pressure equipment and other local exhaust ventilation equipment conforms to ANSI Z9.2-79 as applicable to this project. Non-certified and/or modified equipment is not acceptable. An automatic shutdown system must be incorporated in the event of leakage or rupture of the HEPA filter or blockage of air due to excess material on the filters.
5. POLYETHYLENE: A minimum 6 mil sheet polyethylene shall be used.

NOTE: Use fire retardant sheeting, if a fire hazard exists and in fire egress areas.

6. TAPE: Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces and capable of adhering under both dry and wet conditions, including the use of amended water.
7. SURFACTANT: Shall consist of 50% polyethylene ether and 50% of polyoxyethylene Ester, or equivalent, and shall be mixed with water to provide a concentration of one ounce surfactant to 5 gallons water.
8. ENCAPSULANT: For post-removal lock-down treatment, to bind residual fibers on the abated surface and on the polyethylene sheeting of the containment area.

9. DISPOSAL CONTAINERS:

- 9.1 Impermeable Containers: Suitable to receive and retain asbestos-containing or contaminated materials until disposal at an approved site. The containers shall be labeled in accordance with NIOSH and OSHA regulations. See paragraph D-10. Containers must be both air and water tight and must be resistant to damage and rupture. The containers shall be of two parts: (1) 6 mil polyethylene bags of a size to fit within the drum listed hereafter and capable of being sealed; (2) fiberglass containers with tight fitting lids, and/or heavy walled fiber containers with tight fitting lids. Impermeable containers shall be shipped to the dump site in a fully enclosed locking vehicle.

NOTE: Asbestos Waste Containers shall have the generator's name and facility location clearly marked on the outside of each container.

- 9.2 Disposal Bags: Suitable to receive and retain any asbestos-containing or contaminated materials until disposal at an approved site. The bags must be air tight and water tight made of 6 mil polyethylene and/or asbestos materials may be wrapped in two separate layers of 6 mil polyethylene sheeting. Two disposal bags are required for disposal with asbestos waste material placed in one disposal bag and then placed into a second bag. Both bags must remain air and water tight. Disposal bags shall be labeled in accordance with OSHA and NIOSH regulations and transported to an approved dump site in a fully enclosed locking vehicle.

NOTE: Asbestos Waste Containers shall have the generator's name and facility location clearly marked on the outside of each container.

10. WARNING LABELS and SIGNS: Signs as required by OSHA regulations to demarcate a work area should read as follows:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE
CLOTHING IS REQUIRED IN THIS AREA**

Recommended label for waste containers:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD**

NOTE: Labels shall be printed in large bold letters on a contrasting background

Recommended label for transportation vehicle:

**DANGER
ASBESTOS DUST HAZARD
CANCER AND LUNG DISEASE HAZARD**

ASBESTOS, NA2212, RQ

11. Other Materials: Provide all other materials such as lumber, nails, and hardware which may be required to construct and dismantle the contamination area and the barriers that isolate the work area.

E. Commencement of Work

Asbestos abatement work shall not commence until:

1. Arrangements have been made for proper disposal of all asbestos wastes at an EPA/State approved disposal site. Arrangements must comply with Federal, State and local regulations, transportation arrangements of wastes shall be in compliance with 40 CFR Part 61. The contractor shall notify the State regulatory agency regarding the removal project and the transportation of asbestos waste materials to the approved landfill site.
2. General security and management of the asbestos project has been completed, to include decontamination containment systems in place and parts of the building required to remain in use are effectively segregated and the temporary enclosure in place. Demarcate the asbestos project perimeter by roping off work area perimeter and the placement of appropriate warning signs. Isolation of the buildings ventilation and electrical systems, using appropriate methods.
3. Tools, equipment, material and asbestos waste containers are on hand.
4. Arrangements have been made for building security.
5. All other preparatory steps have been taken and applicable notices posted and permits are obtained.
6. Owner's Consultant and/or Testing Laboratory have been notified and are on the project site.
7. Contractor has assigned a certified project supervisor, to manage the asbestos project, comply with work safety requirements, control access and who is on project site. The Project Supervisor shall have daily logs responsibility at the work site, and the project supervisor shall have his current certification posted at the project site.
8. All pre-work submittal have been approved by the Owner's Representative.
9. A project work site safety plan has been prepared by the Contractor and approved by the Owner's Representative and is available at the work site, including all MSDS sheets of any chemicals to be used at the work site.
10. Perform any other pre-work activity that may be required by Federal, State and/or local agencies to prepare site for an asbestos project. Comply with Work Practices for General Security and Management of Asbestos Projects as a state-of-the-art removal project.

11. Conduct asbestos abatement following the state-of-the-art asbestos removal procedures.

F. Preparation of Work Area and Pre-Work Area Cleaning

The work area will be prepared and cleaned using the following procedures:

a-1) Pre-clean INTERIOR work areas as follows:

1. Remove all personnel from the area not directly involved in the cleaning operations; insure that all the proceeding steps of section E this section have been completed.
2. Wear an approved respirator and disposable suits for pre-cleaning operation, use dry decontamination methods, until decontamination chambers are completed.
3. Pre-clean the work area using HEPA vacuum device, disposable mops, wipes and/or cloths by wet cleaning method. A combination of wet cleaning and vacuuming shall be used to clean all surfaces within the work area. All irregular surfaces shall be cleaned using the HEPA vacuum.
4. All items that are moveable and subject to contamination during the removal, shall be cleaned and removed from the work area. (If storage of movable items is in an area with Friable ACM, re-clean items prior to returning to the cleaned work area.)
5. Dispose of all debris, mop heads, cloths, filters and disposable clothing as asbestos waste material, in accordance with asbestos disposal procedures.
6. Copies of Transportation Manifest and Disposal Receipts from the certified landfill are required to be turned into the Owner's Representative.

a-2) Pre-Clean EXTERIOR work areas as follows:

1. Remove all personnel from the area not directly involved in the cleaning operations; insure that all the preceding steps of section E this section have been completed.
2. Wear an approved respirator and disposable suits for pre-cleaning operation; use dry decontamination methods, until decontamination chambers are completed.
3. Pre-clean the work area by picking up any loose debris on ground prior to laying down poly drop sheets.
4. Dispose of all debris, filters and disposable clothing as asbestos waste material, in accordance with asbestos disposal procedures.
5. Copies of Transportation Manifest and Disposal Receipts from the certified landfill are required to be turned into the Owner's Representative.

b-1) Isolate the INTERIOR work area as follows:

1. Shut down and lock out heating and ventilation system serving the work area and insure that airborne contamination from the work area cannot enter the ventilation systems.
2. Shut down and lock out electrical systems serving the work areas and implement measures to minimize electrical hazards such as use of ground fault interrupters. Critically seal all electrical outlets in the work area. If there are no sources of electrical power outside of the work area (i.e. one-room buildings), then the contractor must provide adequate generator power to operate all abatement equipment and the Owner's Representative's air monitoring pumps as necessary.
3. Install critical barriers seals at all doorways, windows, ventilation system openings and other openings using 6 mil thick polyethylene sheeting or reinforced sheeting if high pressure water jets are used. Seal all seams, conduit and duct work passing through the work area.
4. Install a control curtain in the doorway between the work area and the decontamination facility.
5. Restrict access by establishing a temporary work area perimeter in the asbestos removal area in the building to asbestos project personnel during the course of this project.

b-2) Isolate the EXTERIOR work area as follows:

1. For open-air abatement, place warning tape around the perimeter of the abatement work area.
2. Restrict access to the work area by authorized personnel and wearing of all of the required personal protective equipment, including HEPA respirators.

3. Install critical barriers seals at all doorways, windows, ventilation system openings and other openings using 6 mil thick polyethylene sheeting as needed.
 4. If friable ACM is specified for removal, erect a tent-like poly sheeting enclosure on the outside of the structure and follow isolation procedures outlined in "b-1" above.
 5. Shut down and lock out electrical systems serving the work areas, and implement measures to minimize electrical hazards such as use of ground fault interrupters. Critically seal all electrical outlets in the work area. If there are no sources of electrical power outside of the work area, the contractor must provide adequate generator power to operate all abatement equipment and the Owner's Representative's air monitoring pumps, as necessary.
- c-1) Prepare a work area enclosure as follows (Full Negative Pressure Enclosure):
1. Complete all pre-cleaning and isolation procedures. Cover all non moveable furnishings, equipment and fixtures remaining in the work area, after pre-cleaning procedure, with one or more layers of 6 mil thick polyethylene sheeting.
 2. Refer to drawing (see drawings at back of specifications) for building asbestos locations and building layout set up of minimum 3-stage Decontamination Unit (clean room, shower and equipment room; more chambers may be required per specific state regulations), entrance hallway, critical barrier seals, load out area and negative air set-up.
 3. Walls, ceiling and floors will be covered with a minimum of two layers of 6 mil thick polyethylene sheeting, unless concrete is to be cleaned and encapsulated in cleaning procedures, to form an air tight seal. Securely affix sheeting to ensure that it will remain in position throughout the length of the project. Floor sheeting shall extend up the wall at least 12 inches. Place wall sheeting to the interior of the work area, so that moisture is shed to the interior of the work area, and extends to the floor. An additional 6 mil thick layer of sheeting shall be placed on the floor area to be used as a drop cloth during the removal phase. Repair any tears or leaks noted in the protective sheeting immediately.
 4. Install or construct the personnel and equipment decontamination facility at the entry area to the work area. Form an air tight seal between the decontamination facility and the work area. If a separate load out facility is required, build it in the same manner required for the decontamination facility leaving out the shower room.
 5. Install only HEPA filter equipped ventilation fans in the work area for discharge of filtered air outside the work area. Pass the negative air exhaust piping through the critical barrier seals and form an air tight seal around the duct penetrating the critical barrier. Insure that the fans will replenish the entire volume of the work area every 15 minutes. Discharge the exhausted air outside the building in an area remote from the air intake, and not in an occupied area.
Start the negative air equipment. A negative pressure shall be maintained continuously (24 hours/day) in the area from the start of work until the area has been decontaminated and certified clean by on site testing personnel and the filtration fans have run for a 24 hour period following final clean up procedures or as required by state regulations. Ensure -0.02-inches of water pressure is maintained inside containment using a manometer. Smoke test the containment prior to each work day to visibly confirm air flow moves from outside into the containment and toward the negative air machines.
- c-2) Prepare a work area enclosure as follows (Glovebag Removal):
1. Complete all pre-cleaning and isolation procedures. Cover all non-moveable furnishings, equipment and fixtures remaining in the work area, after pre-cleaning procedure, with one or more layers of 6 mil thick polyethylene sheeting.
 2. Refer to drawing (see drawings at back of specifications) for building asbestos locations and building layout set up of 3-stage decontamination unit, entrance hallway, critical barrier seals, load out area and negative air set-up.
 3. Floors underneath the work area will be covered with a minimum of one layer of 6 mil thick polyethylene drop sheeting, unless concrete to be cleaned and encapsulated in cleaning procedures, to form an air tight seal. Securely affix sheeting to ensure that it will remain in position throughout the length of the project. Repair any tears or leaks noted in the protective sheeting immediately.
 4. Install or construct the personnel and equipment decontamination facility at the entry area to the work area. Form an air tight seal between the decontamination facility and the work area. If a separate load out facility is required, built it in the same manner required for the decontamination facility leaving out the shower room.
 5. Install only HEPA filter equipped ventilation fans in the work area for discharge of filtered air outside the work area. Pass the negative air exhaust piping through the critical barrier seals and form an air tight seal around the duct penetrating the critical barrier. Insure that the fans will replenish the entire volume of the work area every 15 minutes. Discharge the exhausted air outside the building in an area remote from the air intake, and not in an occupied area.
 6. Start the negative air equipment. A negative pressure shall be maintained continuously (24 hours/day) from the start of work in the area until the area has been decontaminated and certified clean by on site testing personnel and the filtration fans have run for a 24 hour period following final clean up procedures or as required by state regulations. Smoke test the containment prior to each work day to visibly confirm air flow moves from outside into the containment and toward the negative air machines.

c-3) Prepare a work area enclosure as follows (Critical Seals only-Interior Non-Friable ACM):

1. Complete all pre-cleaning and isolation procedures. Cover all non-moveable furnishings, equipment and fixtures remaining in the work area, after pre-cleaning procedure, with one or more layers of 6 mil thick polyethylene sheeting.
2. Refer to drawing (see drawings at back of specifications) for building asbestos locations and building layout set up of a minimum 2-Stage Decontamination Unit (clean room and equipment room) , entrance hallway, critical barrier seals, load out area and negative air set-up.
3. Install or construct the personnel and equipment decontamination facility at the entry area to the work area. Form an air tight seal between the decontamination facility and the work area. If a separate load out facility is required, build it in the same manner required for the decontamination facility leaving out the shower room.
4. Install only HEPA filter equipped ventilation fans in the work area for discharge of filtered air outside the work area. Pass the negative air exhaust piping through the critical barrier seals and form an air tight seal around the duct penetrating the critical barrier. Ensure that the fans will replenish the entire volume of the work area every 15 minutes. Discharge the exhausted air outside the building in an area remote from the air intake, and not in an occupied area.
5. Start the negative air equipment. A negative pressure shall be maintained continuously (24 hours/day) in the area from the start of work until the area has been decontaminated and certified clean by on site testing personnel and the filtration fans have run for a 24 hour period following final clean up procedures or as required by state regulations.

c-4) Prepare a work area enclosure as follows (Mini-containment):

1. Complete all pre-cleaning and isolation procedures. Cover all non-moveable furnishings, equipment and fixtures remaining in the work area, after pre-cleaning procedure, with one or more layers of 6 mil thick polyethylene sheeting.
2. Refer to drawing (see drawings at back of specifications) for building asbestos locations and set up of minimum 4 feet x 4 feet mini-containment. Mini-containment must be constructed of rigid framework (wood, steel or PVC) and may be duct-taped to the floor or constructed with a flexible rubber base to allow mobile operations (such as removal of floor tile from continuously operated 24 hour/day, 7 days/week areas)
3. Construct a remote personnel and equipment decontamination facility near the entry area to the work area. Install double-flaps on one side of the mini-containment for access.
4. Install only HEPA filter-equipped ventilation fans in the work area for discharge of filtered air outside the work area. Utilize a small negative air machine with HEPA-filtration or a HEPA-vacuum for ventilation. Pass the negative air exhaust piping through the critical barrier seals and form an air tight seal around the duct penetrating the critical barrier. Discharge the exhausted air outside the building in an area remote from the air intake, and not in an occupied area.
5. Start the negative air equipment. A negative pressure shall be maintained continuously (24 hours/day) from the start of work in the area until the area has been decontaminated and certified clean by on site testing personnel and the filtration fans have run for a 24 hour period following final clean up procedures or as required by state regulations. Smoke test the mini-containment prior to each work day to visibly confirm air flow moves from outside into the containment and toward the negative air machines.

c-5) Prepare a work area enclosure as follows (Exterior Areas):

1. Refer to drawing (see drawings at back of specifications) for building asbestos locations. If materials specified for removal are non-friable, no work area enclosure is required. If friable materials are being removed, erect a tent-like enclosure on the exterior of the building to enclose the friable materials.
2. Construct a remote 2-stage decontamination unit (clean and equipment rooms) for personnel and equipment decontamination near the entry area to the work area.
3. If conducting removal of non-friable materials, no HEPA-filter equipped ventilation is required. On exterior removals of friable materials within a tent-like enclosure, install only HEPA filter-equipped ventilation fans in the work area for discharge of filtered air outside the work area. Utilize a small negative air machine with HEPA-filtration or a HEPA-vacuum for ventilation. Pass the negative air exhaust piping through the critical barrier seals and form an air tight seal around the duct penetrating the critical barrier.
4. Start the negative air equipment. A negative pressure shall be maintained continuously (24 hours/day) in the area from the start of work until the area has been decontaminated and certified clean by on site testing personnel and the filtration fans have run for a 24 hour period following final clean up procedures or as required by state regulations. Smoke test the tent-like enclosure prior to each work day to visibly confirm air flow moves from outside into the containment and toward the negative air machines.

G. Project Notes and Material-Specific Removal Procedures
Lyderson Property – Abandoned House

Skykomish, WA
May 18-19, 2006

Part 2 – Scope

1. The following asbestos-containing materials are known to be present at the work site and are included in the scope of this project. If any other materials are found which are suspected of containing asbestos, notify immediately the Owner's Representative. All of the identified asbestos-containing materials and debris are to be removed.

Lyderson Property – Abandoned House - Skykomish, Washington (EMR Project # 7625.001)

PRIMARY SCOPE OF WORK

- Remove approximately 1,280 S.F. of transite siding or concrete asbestos board (CAB) and underlying felt from the exterior of the house on both first and second floors. All siding and felt must be removed down to bare wood.
Sample #SKWA-LHB-008 (30% Chrysotile)

Non-Friable Removal Procedures (transite shingle siding):

- Prior to placing poly drop sheets around perimeter, pick up minor debris on ground and place in disposal bags.
- Position roll-off box/dumpster double-lined with 6-mil poly for staging debris.
- Lay down 6-mil poly drop sheet around perimeter of building approximately 8 feet wide.
- Set up caution tape perimeter (at a minimum at outside edge of poly drop sheet).
- Scaffolding should be used to remove transite shingle siding. A mechanical lift will be required to access second floor and upper side walls. Roof edge is approximately 15 feet above ground surface.
- Roof peak is approximately 22 feet above ground surface.
- Wet transite siding material and felt to be removed; remove mostly intact; keep debris wet, bag debris; and place disposal bags in roll-off box/dumpster.
- Roll-off box/dumpster is to be removed from site immediately following job completion.

Project-Specific Notes:

- Power and water are NOT available. Contractor must provide adequate backup generator power to run abatement equipment and Owner's Representative's air pumps for area sampling. Adequate water must be provided for continuous wetting of material prior to and during removal.
 - Roof elevation is 15 feet at perimeter; 22 feet at peak; appropriate fall protection must be worn during removal to include fall arresting rope, tie-off hooks and full body harness/lanyards.
 - The transite siding has an underlying felt. Remove all transite and underlying felt down to bare wood.
 - Work may be conducted during normal daylight business hours.
 - Workers will wear all appropriate PPE.
 - Pre-clean the exterior work area per Section 01013, Part 1- General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title a-2: Pre-cleaning of Exterior Areas.
 - Isolate the work area per Section 01013, Part 1-General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title b-2: Isolation of Exterior Areas.
 - Prepare a work area enclosure per Section 01013, Part 1 – General, Heading F-Preparation of Work Area and Pre-Work Area Cleaning, Title c-5: Preparation of Exterior Areas-Non-Friable Removal.
2. Contractor shall comply with all federal, state, and local notification requirements.
 3. The quantity of material to be removed is to be verified by the contractor.
 4. All pre-cleaning shall be conducted prior to setting up containment barriers. Pre-cleaning shall consist of HEPA vacuuming and wet wiping all surfaces.
 5. Contractor shall conduct removal procedures in all functional areas in a "state-of-the-art manner." All asbestos containing materials and asbestos-contaminated debris as listed above shall be removed from the work areas and properly disposed of as asbestos-containing material.

6. Owner Representative will be on-site to oversee project to insure compliance with specification and regulations during removal activity.
7. Air monitoring is required for this project and will be provided by the owner's representative. No work shall be conducted without the owner's representative present on-site.
8. Make sure all signs and project barriers are maintained throughout the duration of the project.
9. Contractor shall only proceed in work areas as scheduled and/or authorized by Owner and Owner's Representative. Changes in the work schedule shall be made by written communication.
10. Contractor shall lock out and/or isolate electrical lighting and outlets of each work area with the assistance of a BNSF electrical employee. The contractor shall not lock out and/or disconnect any electrical in the work area without BNSF assistance to avoid disruption of critical service (computers, signals, phone, radio, etc.). There may be phone lines, computer lines, etc. located in the work areas that must be handled with care so as not to disrupt service.
11. The contractor will be responsible for covering and/or removing equipment required to conduct removal activity. The contractor shall work closely with the building owner's representative to minimize work disruptions.
12. Removal steps (transite siding material):
 1. Remove the asbestos materials listed above by the methods approved by the OSHA. The transite roofing and siding material shall be considered asbestos-containing material, using outdoor removal practices for non-friable removal. Cleanup visible debris as necessary.
 2. Lay down 6 mil drop sheet (approximately 10-12 feet wide) around the perimeter of the building and place a caution tape perimeter barrier on the outside edge of the drop sheet to define the work area.
 3. Access using proper fall protection. A mechanical lift may be required to access transite siding on the second floor.
 4. The removal techniques for the temporary procedures shall be done by the wet method. Saturate all exposed surfaces of the ACM to be removed with amended water and begin removal of the transite. Remove transite materials intact - minimize broken siding.
 5. The removed material shall not be allowed to dry out. As it is removed, simultaneously begin packing the material into 6 mil disposal bags and/or wrap in two layers of 6 mil poly for disposal. Continue misting and maintaining the materials to be removed with amended water. Clean all surfaces with a wire brush and amended water. All materials removed, including the debris shall be considered asbestos contaminated and removed as such.
 6. Seal filled bags, use absorbent material as necessary to reduce any free water in the bags. Wet clean external surfaces of containers. The glove bags shall be wet wiped for decontamination and then begin double bagging of waste materials in a second waste disposal bag, and removal from the work area to the load-out storage area for loading into a locking transportation vehicle.
 7. Remove and load into a locking transportation vehicle for transportation and disposal at the approved landfill site.
 8. Upon completion of the asbestos removal and the removal of all asbestos waste materials, initiate first cleaning. Clean and decontaminate the exterior walls area down to bare wood. Roll up 6 mil poly drop sheet and dispose of in roll-off box/dumpster. Upon completion of the first cleaning, clean and decontaminate for removal all equipment and tools in the work area. Conduct inspection of the work area.

H. Clean-up and Final Air Clearance

Final project cleaning and Air Clearance will be performed as follows:

1. After the work area is visibly clean and dry, begin the final work area cleaning. Remove the polyethylene sheeting from everything and insure that all surfaces are clean and free of any visible debris.
2. Clean all previously covered surfaces of debris.
3. Not less than 24 hours after the second cleaning, the contractor will initiate final work area air monitoring to determine if the area is in compliance with the air borne contamination level for this project of 0.01 fibers/cc by the NIOSH 7400 method.

4. The final project dismantling shall not occur until the HEPA air ventilation equipment has operated for 24 hours following the initiation of the air disturbance required as a part of the final air clearance testing and approval.
5. Treat all removed plastic sheeting, waste and debris as ACM and dispose of accordingly.
6. It shall be the contractor's responsibility to replace or repair to the Owner's satisfaction, prior to close out of this project, all items identified as missing or damaged by the Contractor and not proven otherwise.

I. References and Regulations

Compliance with all applicable Federal, State and Local regulations and use of the best available technology, procedures and methods for preparation, execution, clean-up, disposal and safety are absolutely required. This compliance is the sole responsibility of the removal Contractor.

The intent of the specifications is to accurately describe the work that is to be performed under this contract. The Owner and Owner's Representative assume no responsibility for the proper and safe execution of the work.

J. Disposal

Disposal of all asbestos containing material shall be disposed at a regulated asbestos landfill designated as a licensed asbestos disposal site for all asbestos containing material removed under these specifications. All asbestos waste must be manifested to the licensed asbestos landfill and waste disposal records shall be a part of final reports submitted to EMR.

K. Air Monitoring and Testing

The Owner's Representative will provide third-party air monitoring services. Coordinate project activities with the Owner's Representative to facilitate air monitoring services. Air monitoring for this project shall include air sampling and monitoring of pre-work activities, work areas during project execution, and work area final air clearance testing. The Owner's Representative will provide for air monitoring of project personnel and provide results to the contractor on a daily basis. However, the Contractor will provide personal pumps for OSHA compliance sampling. The Owner's Representative will do analysis of contractor's personal samples by PCM. No abatement work activity shall be allowed without air monitoring being conducted. The Owner's Representative will conduct the air sampling and monitoring during all hours that the Contractor's personnel are on the project site, during pre-abatement setup, abatement activities, final clearance and enclosure removal and cleanup. The daily project air sampling will be the responsibility of the Owner's Representative on a per shift basis.

The Owner's Representative has authority over daily scheduling and progression of work through completion of the project. The Contractor's work crew shall work shifts as necessary on the project site to complete the project on the prescribed time schedule. Provide the air monitoring service advance notice of anticipated work schedule.

PCM analysis by NIOSH method 7400 will be conducted on-site for all background, area, personal and clearance samples, unless otherwise directed by the state regulatory agency. Final air clearance for the project work area shall be a contamination level within the work area that is less than or equal to 0.01 fibers per cubic centimeter (0.01 f/cc) per the NIOSH 7400 method.

END OF SECTION 01013

SECTION IV

AIR MONITORING DATA

EMR presents Section IV to provide Air Monitoring results of personnel, work area and final air clearance samples collected, documented and analyzed, which identifies the work site air conditions prior to, during and at the completion of the work required as part of the asbestos removal project at: Lyderson Property - EMR Project No. 7625.001, Skykomish, WA.

ENCLOSURE _____
 INI-ENCLOSURE _____
 NO ENCLOSURE X
 GLOVEBAG _____

ASBESTOS AIR SAMPLING IN-OF-CUSTODY

BLANK AVERAGE (FIBERS/100 F) 0
 CLEARANCE SAMPLES _____
 CLEARANCE LEVEL <0.01

PROJECT NO. 7625.001
 PROJECT TITLE: Lydersen Property
 CLIENT: BNSF



ENVIRONMENTAL MANAGEMENT RESOURCES

DATE: 5/18/06
 PROJ. SITE MGR.: Mike McKay
 WORK AREA: Exterior walls

Sample Number	Pump Number	Time On	Time Off	Total Minutes	Flow Rate (l/m - avg.)	Volume (liters)	Sample Location/Description	Fibers (-blank)	Fields	Fibers/cc	TWA Fibers/cc
1							Field Blank	0	100		
2							Lab Blank	0	100		
3	10	09:30	10:00	30	2.5	75	IWA Excursion Area Jason Olson	3	100	0.036	0.008
4	10	10:04	18:07	483	2.5	1208	IWA Personal Area Jason Olson	14	100	0.006	0.008
5	2	10:09	13:12	183	10	1830	OWA Area Downwind area	10	100	0.003	
6	2	13:16	17:30	254	10	2540	OWA Area Downwind area	12	100	0.002	
Samples Collected By (Name/Signature): <u>Mike McKay</u>							Date: <u>5/18/06</u>		Received by (Name/Signature):		Date:
Received by (Name/Signature):							Date:		<u>Mike McKay</u>		<u>5/18/06</u>
Turnaround Time ☒ On-site () Immediate () 24 Hour () Normal							Comments: <u>Removal of transite siding and Non-Asm paper.</u>				
Laboratory Receiving Notes:				Custody Seal Intact? Y		Sample Condition: <u>Good</u>					

FAXED
 6-14-06
 to IRS

Description of Work Area:

Removal of transite siding and paper

Contractor Certificate of Visual Inspection:

In accordance with Section 01711 "Project Decontamination" the contractor hereby certifies that he has visually inspected the above work area (all surfaces including pipes, beams, ledges, walls, ceiling, and floor, decontamination unit, sheet plastic, etc.) and has found no dust, debris or residue.

By (Signature):

Yuri Belko

Company:

IRS Environmental

(Print Name):

Yuri Belko

Date:

5-18-06

(Print Title):

Asbestos Supervisor

Project Site Manager Certification:

The Project Site Manager and/or Air Monitoring Service Representative hereby certifies that he has accompanied the contractor on his visual inspection of the described work area and verifies that his inspection has been thorough and to the best of his/her knowledge and belief, the contractor's certification above is true and honest.

By (Signature):

Michael McKay

Company:

EMR

(Print Name):

Michael McKay

Date:

5/18/06

(Print Title):

Project site Manager

SECTION V

ABATEMENT CONTRACTOR CLOSEOUT DOCUMENTS

EMR presents Section V to provide closeout documents provided by the asbestos abatement contractor as part of the asbestos removal project at: Lyderson Property - EMR Project No. 7625.001, Skykomish, WA.

Asbestos Abatement Post Project Record
for
BNSF Lynderson Property

Prepared by
IRS Environmental of WA, Inc..
Our Project No. W8194

Prepared for

Chris Patnode
EMR, Inc.
EMR Project # 7625.001

Table of Contents:

1. Permits and Notifications
2. Daily Project Logs
3. Air Monitoring Results
4. Disposal Documentation
5. Workers Certification
6. Workers Fit Test/Physical

Permits & Notifications

Labor and Industries
Industrial Hygiene Compliance
(Regional addresses and phone
numbers on page 2)



NOTICE OF ASBESTOS ABATEMENT PROJECT

THIS NOTICE MUST BE RECEIVED NO LATER THAN 10 CALENDAR DAYS PRIOR TO THE START DATE
COMPLETE ALL APPLICABLE BOXES - INCOMPLETE OR ILLEGIBLE NOTICES WILL NOT BE ACCEPTED
MAIL OR FAX TO THE REGIONAL OFFICE - CIRCLE CHANGES ON AMENDED NOTICES

Notice date: 05 / 05 / 06	Initial ☒ Amended ☐	Site Work Hours	Su	Mo	Tu	We	Th	Fr	Sa
Start date: 05 / 18 / 06	On Hold ☐ Off Hold ☐	7:00 am to 3:30 pm					X	X	
Completion: 05 / 19 / 06	Emergency ☐		Project Dates and Work Hours must be Exact						

CONTRACTOR		PROPERTY OWNER	
Company Name IRS ENVIRONMENTAL, INC	Name BNSF RAILWAY		
Contractor Certification Number 01229	Owner's Agent BRUCE SHEPPARD		
Signature <i>Grant Baker</i>	Company BNSF		
Printed Name GRANT BAKER	Address 2454 OCCIDENTAL AVE. SO. #1A		
Phone Number 206-932-0944	City SEATTLE	State WA	ZIP+4 98134
Job Site C.A.S. JASON OLSON	Phone number 206-625-6035		

JOB SITE		FACILITY	
Address 303 RIVERVIEW AVE	Type RESIDENTIAL		
Building Name RESIDENTIAL	Room NA	Age 1960	Size 1800
City SKYKOMISH	WA	☐ Remodel ☒ Demolition ☐ Repair ☐ Maintenance	
ZIP + 4 98288	County KING		

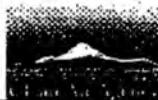
QUANTITY OF ASBESTOS TO BE: ☒ REMOVED ☐ ENCAPSULATED

Quantity <u>1280</u> square feet	☐ Indoors ☒ Outdoors	
☐ Fireproofing ☐ Boiler insulation ☐ Popcorn ceiling ☐ Duct paper ☒ CAB ☐ VAT ☐ Sheet vinyl ☐ Roofing ☐ Asbestos paper ☐ Other _____	CONTROL MEASURES ☐ Neg. pres. enclosure ☐ Wrap & cut ☐ Glove bag ☒ Wet methods ☐ Mini enclosure ☒ HEPA vacuum ☐ Critical barriers ☒ Manual methods ☐ Other _____ ☐ Other _____	
Quantity _____ linear feet	RESPIRATORY PROTECTION	
☐ Mag. pipe insulation ☐ Cement asbestos pipe ☐ Air cell pipe insulation ☐ Mudded pipe ins. ☐ Ducting/duct insulation ☐ Duct tape ☐ Other _____ ☐ Other _____	☒ 1/2 mask APR ☐ Type C continuous flow ☐ Full face APR ☐ Type C pressure demand ☐ PAPR ☐ Other _____	

F413-025-000 notice of asbestos abatement project 9-02

For clean copies go to <http://www.lni.wa.gov/forms/>

FAKED
5-5-06

Agency Case No. 200602067	 PUGET SOUND CLEAN AIR AGENCY 110 Union Street, Suite 500 Seattle, WA 98101-2038 www.pscleanair.org	Date Received MAY 8 2006
Agency Use Only	NOTICE OF INTENT	Agency Use Only

A. Project Type: 1. ☐ Friable Asbestos Removal 2. ☒ Friable Asbestos Removal & Demolition 3. ☐ Demolition Only

B. Property Owner: **BNSF Railway** Phone: **206-625-6035**
Mailing Address: **2454 Occidental Ave S.** City: **Seattle** State: **WA** Zip: **98131**

C. Asbestos Contractors: **IRS ENVIRONMENTAL** Owner/CEO: **ROB REED**
Mailing Address: **P.O. Box 15216** Phone: **509-927-7867** Contractor Job No.: **W-8194**
City: **SPOKANE VALLEY** State: **WA** Zip: **99215-5216** Fax: **509-928-3933**

D. Site Address: **303 RIVERVIEW AVE** City: **SKYKOMISH** Zip: **98288**
Site Manager: **JASON OLSON** Local Phone: **206-932-0944**

E. ☒ Asbestos Survey or ☐ Mat'l Presumed No. of Structures: **1** Date of Asbestos Survey: **4-13-06** Was Friable Asbestos Identified? ☒ Yes ☐ No
Was Nonfriable Asbestos Identified? ☒ Yes ☐ No
Attach a copy of the survey when friable asbestos has not been identified.
AHRA Building Inspector: **SHANNON ADAMSON** Certification #: **1020506** Exp. Date: **JAN-07**

F. Demolition Information: Start Date: **PENDING** No. of Structures: **1** 1. ☐ Training Fire (List Fire Dept.)
2. ☐ Ordered Demolition (attach copy of Order)
Demolition Contractor: **BNSF Railway** Will nonfriable asbestos be left in place during demo? ☐ Yes ☒ No
If yes, list type and qty. Note disposal requirements in Step 6 (on back).

G. Friable Asbestos Project Information: Start Date: **5-18-06** Completion Date: **5-19-06** Work Days: **M T W T F Sa Su**
Hours: **7:00 - 3:30** Will all friable asbestos materials be removed? ☒ Yes ☐ No
Total Qty. to be Removed: Linear Ft. **1280** Square Ft. **1280**
☐ Boiler/Furnace Insulation ☐ Duct Insulation ☐ Pipe Insulation ☐ Fireproofing ☐ Paints ☐ Plaster ☐ Textured Coatings
☒ Cement Board ☐ Cement Pipe ☐ Friable Flooring ☐ Friable Roofing Material Other:

H. Asbestos/Demolition Project Categories:

	Notification Period	Project Fee	Demolition Surcharge
1. Single-Family Residence (owner-occupied):			
A. ☐ Asbestos Removal Project Only	A. Prior Notice	A. \$25	
B. ☐ Demolition Project (with or without asbestos removal project)	B. 10 Days*	B. \$50	
*(Asbestos removal can begin upon notification; demolition must wait 10 days)			
Note: If the single family residence is owned by one family who has been or will be using the residence as their domicile, the above boxes 1A or 1B may be checked. If this is not an owner-occupied residence, one of the categories listed below must be used instead. A single family residence does not include rental property, multi-family units, or any mixed-use building.			
2. ☐ All Other Demolitions (with no Asbestos removal or Nonfriable Asbestos only or less than 10 linear feet and/or 48 square feet of friable Asbestos)	10 Days		\$100
Friable Asbestos Projects (other than Single Family Residence):			
3. ☐ $\geq 10 - 259$ linear feet and/or $\geq 48 - 159$ square feet of asbestos	Asbestos Prior Notice 10 Days	\$100	\$100
4. ☒ 260 - 999 linear feet and/or 160 - 4,999 square feet of asbestos	10 Days	\$200	\$100
5. ☐ $> 1,000$ linear feet and/or $> 5,000$ square feet of asbestos	10 Days	\$600	\$100
6. ☐ Emergency Asbestos Project or ☐ Emergency Demolition Project (Single-Family Residences are exempt from emergency fee; however, property owners must provide a written emergency request)	Prior Notice	\$50 Emergency Fee	

I. I certify that the information contained in this notification & supplemental data is, to the best of my knowledge, accurate & complete.

Signature: **Mark Walsh** Representing: **IRS ENVIRONMENTAL** Date: **5-8-06**

Agency Use Only: Reviewed By: **Mark Walsh** Date: **5/9/06**

Puget Sound Clean Air Agency Form No.: 66-160 (Revised 2-05) JS

RECEIVED MAY 16 2006

RECEIVED MAY 16 2006

Daily Project Logs



CONT. REG. NO. IRSENV1033PN

WASHINGTON-OREGON-IDAHO-MONTANA
12415 E. TRENT AVE. * SPOKANE VALLEY, WA 99216
(509) 927-7867 FAX (509) 928-3933

ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES

DAILY PROJECT LOG

Abatement Company: IRS Environmental of WA, Inc.
Address: 12415 E. Trent, Spokane WA 99216

Project Name: BNSF Lyderson Resi

Project Address: 303 Riverview Ave.

Job Number: W-8194

Dumpster: (check one) ☐ drop off, ☐ pick up, ☐ on site

Daily Report: Contacted Mike McKay, of EMR,
and followed him to job site. We all had a
safety meeting everyone signed it. We walked around
building with crew and outlined the day.

Crew begin prep. I ran an area air sample
and started paperwork. Then we started removal.
Removed two sides of building before lunch.

After lunch finished removing CAB. Rich and I
where fall protection and removed all CAB above 10'.
Finished and demobed.

Problems or change order work encountered today: _____

Visitors & Conversations: _____

Supervisor Signature: J. Belk

Date: 5-18-06

Day: thurs

Page: 1 of 1

Air Monitoring Results

ASBESTOS AIR SAMPLING CHAIN-OF-CUSTODY

BLANK AVERAGE (FIBERS/100 FIELDS) 0
 CLEARANCE SAMPLES
 CLEARANCE LEVEL 0.01

ENCLOSURE _____
 IN-ENCLOSURE _____
 NO ENCLOSURE X
 GLOVEBAG _____

PASS
 OR
 FAIL

PROJECT NO. 7625.001
 PROJECT TITLE: Lyderson Property
 CLIENT: BNSF



ENVIRONMENTAL MANAGEMENT RESOURCES

DATE: 5/18/06
 PROJ. SITE MGR.: Mike McKay
 WORK AREA: Exterior walls

Sample Number	Pump Number	Time On	Time Off	Total Minutes	Flow Rate (l/m - avg.)	Volume (liters)	Sample Location/Description	Fibers (-blank)	Fields	Fibers/cc	TWA Fibers/cc
1							Field Blank	0	100		
2							Lab Blank	0	100		
3	10	09:30	10:00	30	2.5	75	TWA Excursion Area Jason Olson	3	100	0.036	0.008
4	10	10:04	18:07	483	2.5	1208	TWA Personal Area Jason Olson	14	100	0.006	0.008
5	2	10:09	13:12	183	10	1830	OWA Area Downwind area	10	100	0.003	
6	2	13:16	17:30	254	10	2540	OWA Area Downwind area	12	100	0.002	
Samples Collected By (Name/Signature): <u>Mike McKay</u>							Date: <u>5/18/06</u>	Received by (Name/Signature):			Date:
Received by (Name/Signature):							Date:	<u>Mike McKay</u>			<u>5/18/06</u>
Turnaround Time ☒ On-site () Immediate () 24 Hour () Normal							Comments: <u>Removal of transite siding and Non-Acm paper.</u>				
Laboratory Receiving Notes:			Custody Seal Intact? Y	Sample Condition: Good							

FAXED
 6-14-06
 to IRS

Page 1 of 1

Disposal Documentation

ASN 4

ASBESTOS WASTE SHIPMENT REPORT FORM



PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Portland at (503) 229-5364, Salem at (503) 378-8240 ext. 272, Medford at (541) 776-6010 ext. 235, or Bend at (541) 388-6146 ext. 226, OR call (800) 452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: BNSF Lyderson Resi
303 Riverview Ave. Seattle King 98288
Street City/State County Zip
 Contact person: Mike McKay Phone: 206-910-6937
2. Operator's name and address: IRS Environmental Phone: 206-932-0944
PO Box 16188 SEATTLE WA 98116-0188
Street City/State County Zip
3. Waste disposal site: Columbia Ridge Landfill Phone: 541-454-3310
18177 CEDAR SPRINGS Lane APLINGTON OR 99812
Street City/State County Zip
4. Describe asbestos materials: Class II Non-Friable / Cement Asbestos Board
5. Containers: Number: 117 Type: Double-Bagged
6. Total quantity (cubic yards): 15cy

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Name: Yuri Belko Company: IRS Environmental
 Signature: [Signature] Date: 5-19-06

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
 Agent: Michael Ruske Company: ELT
 Address: STANWOOD, WA Phone: 425 508-1962
 Signature: [Signature] Date: 6-13-06
9. Transporter #2: (Acknowledgment of receipt of materials)
 Agent: [Signature] Company: UPNA
 Address: Sea WA Phone:
 Signature: [Signature] Date: 6/13/06

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Columbia Ridge Landfill
 Name and Title: Silvane Olengust Date: 6-29-06
 Signature: [Signature] Phone: 541-454-3332
11. DISCREPANCY SPACE: (Add attachments as needed)

Worker Certification



WASHINGTON-OREGON-IDAHO-MONTANA
E. 1241 S TRENT AVE. *SPOKANE, WA 99216
(509) 927-7867 FAX 928-3933

**ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES**

**IRS ENVIRONMENTAL OF WA, INC.
CERTIFICATION OF WORKER'S ACKNOWLEDGMENT**

*** WORKING WITH ASBESTOS CAN BE DANGEROUS.
*** INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPE OF CANCER.
*** IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS
GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

IRS ENVIRONMENTAL requires that:

- You be supplied with the proper respirator and be trained in its use.
- You be trained in safe work practices and in the use of the equipment found on the job.
- You receive a medical examination.

These things have been done at no cost to you. By signing this certification you are acknowledging the fact that IRS Environmental (your employer) has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators, and informed of the type of respirator to be used on IRS Environmental asbestos and lead removal projects. I have a copy of the written respiratory protection manual issued by my employer. I have been equipped at no cost with the respirator to be used on this project.

TRAINING COURSE: I have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. The topics covered in the course include the following:

Physical characteristics of asbestos
Health hazards associated with asbestos
Respiratory protection
Use of protective equipment
Negative air systems
Work practices including hands on or on-job training
Personal decontamination procedures
Air monitoring, personal and area

MEDICAL EXAMINATION: I have had a medical examination within the past 12 months, which was paid for by IRS Environmental or my previous employer. This examination included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray.

Yuri Belko
Employee Signature

2/13/06
Date

CERTIFIED AS PROVIDED BY LAW AS

ASBESTOS SUPERVISOR
CERTIFICATE NUMBER: 2007025937A
EXPIRATION DATE: 01/29/2007

BELKO, YURI
12379 SE 160TH
RENTON, WA 98058

Signature Yuri Belko
Issued by DEPARTMENT OF LABOR AND INDUSTRIES



WASHINGTON-IDAHO-MONTANA
E. 12415 TRENT AVE. SPOKANE, WA 99216
(509) 927-7867 FAX 928-3933

ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES

IRS ENVIRONMENTAL OF W/A, INC.
CERTIFICATION OF WORKER'S ACKNOWLEDGMENT

*** WORKING WITH ASBESTOS CAN BE DANGEROUS.
*** INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPE OF CANCER.
*** IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS
GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

IRS ENVIRONMENTAL requires that:

- * You be supplied with the proper respirator and be trained in its use.
- * You be trained in safe work practices and in the use of the equipment found on the job.
- * You receive a medical examination.

These things have been done at no cost to you. By signing this certification you are acknowledging the fact that IRS Environmental (your employer) has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators, and informed of the type of respirator to be used on IRS Environmental asbestos and lead removal projects. I have a copy of the written respiratory protection manual issued by my employer. I have been equipped at no cost with the respirator to be used on this project.

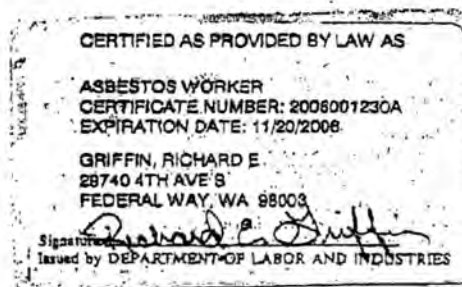
TRAINING COURSE: I have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. The topics covered in the course include the following:

Physical characteristics of asbestos
Health hazards associated with asbestos
Respiratory protection
Use of protective equipment
Negative air systems
Work practices including hands on or on-job training
Personal decontamination procedures
Air monitoring, personal and area

MEDICAL EXAMINATION: I have had a medical examination within the past 12 months, which was paid for by IRS Environmental or my previous employer. This examination included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray.

Richard E. Griffin
Employee Signature

1-25-05
Date





WASHINGTON-OREGON-IDAHO-MONTANA
E. 12415 ENT AVE. SPOKANE, WA 99216
(509) 4-7-7867 FAX 928-3933

**ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES**

**IRS ENVIRONMENTAL OF WA, INC.
CERTIFICATION OF WORKER'S ACKNOWLEDGMENT**

*** WORKING WITH ASBESTOS CAN BE DANGEROUS.
*** INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPE OF CANCER.
*** IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS
GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

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- * You be trained in safe work practices and in the use of the equipment found on the job.
- * You receive a medical examination.

These things have been done at no cost to you. By signing this certification you are acknowledging the fact that IRS Environmental (your employer) has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators, and informed of the type of respirator to be used on IRS Environmental asbestos and lead removal projects. I have a copy of the written respiratory protection manual issued by my employer. I have been equipped at no cost with the respirator to be used on this project.

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Physical characteristics of asbestos
Health hazards associated with asbestos
Respiratory protection
Use of protective equipment
Negative air systems
Work practices including hands on or on-job training
Personal decontamination procedures
Air monitoring, personal and area

MEDICAL EXAMINATION: I have had a medical examination within the past 12 months, which was paid for by IRS Environmental or my previous employer. This examination included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray.

Employee Signature _____

2-10-6
Date

CERTIFIED AS PROVIDED BY LAW AS

ASBESTOS SUPERVISOR
CERTIFICATE NUMBER: 2007025946A
EXPIRATION DATE: 01/29/2007

OLSON, JASON W
12033 80TH AVE S
SEATTLE, WA 98178

Signature _____

Issued by DEPARTMENT OF LABOR AND INDUSTRIES

Worker Fit Test/Physical



WASHINGTON-OREGON-IDAHO-MONTANA
E. 12415 TRENT AVE. SPOKANE, WA 99216
(509) 927-7867 FAX 928-3933

ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES

QUALITATIVE FIT TEST RECORD

Name: YURI BEIKO
Soc. Sec. No.: _____

Issue Date: 11-7-05
Expiration Date: 11-7-06
Test Operator: STEVE NESS

TYPE OF QUALITATIVE FIT TEST: IRRITANT SMOKE

RESPIRATOR

Respirator brand: North
Model: 7700
Size: Small _____
Med. _____
Lrg. X

NIOSH Approval #: TC-21C-152
Wear at least 10 minutes: YES
+/- Pressure fit check: YES

TEST

Each exercise is performed for one minute

Normal Breathing-No talking

Deep breathing-be certain breaths are deep

Turn head side to side-Inhale on each side, do not bump
the respirator against shoulders

Move head up and down-Inhale when head is in full up position,
do not bump respirator against chest.

Reading-with eyes closed, repeat slowly and clearly after the
conductor the "Rainbow Passage"

Jogging in place-Jog in place

Normal breathing-No talking

Pass

Fail

X

X

X

X

X

X

X

FINAL FIT: Pass

Supervisor Signature: _____

Employee Signature: _____

** Employee must have a current qualitative fit test before assigning them a task that requires a respirator to be worn.

OCCUHEALTH
726 BROADWAY #201
SEATTLE, WA 98122
(206)682-2234

ASBESTOS SURVEILLANCE REPORT

NAME: YURI BELKO

BASELINE: _____

COMPANY: IRS ENV

ANNUAL: XX

DATE OF EXAM: 6-6-05

EXIT: _____

Based on the exam performed at OCCUHEALTH, including review of the asbestos questionnaire, pulmonary function screening and chest x-ray:

☒ No medical condition was detected which would place this individual at risk of health impairments from exposure to asbestos.

☒ No limitations are recommended on the planned duties including use of protective equipment including respirator.

☒ The employee was informed by me of the results of testing and of any medical conditions that might be due to asbestos exposure.

☒ This employee was made aware that this was a limited evaluation regarding asbestos exposure and does not replace the need for more complete regular physical examinations by a personal physician and the need to follow sound health practices.

Further recommendations that apply:

☒ This employee was counseled to stop smoking, even when away from asbestos exposure.

Other: _____


Kevin M. O'Keefe, M.D.

Cynthia L. Rubbert, PA-C



WASHINGTON-OREGON-IDAHO-MONTANA
E. 12415 TRENT AVE. *SPOKANE, WA 99216
(509) 927-7867 FAX 928-3933

ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES

QUALITATIVE FIT TEST RECORD

Name: Richard Griffin

Issue Date: 11-7-05

Soc. Sec. No.: _____

Expiration Date: 11-7-06

Test Operator: STEVENESS

TYPE OF QUALITATIVE FIT TEST: IRRITANT SMOKE

RESPIRATOR

Respirator brand: North

NIOSH Approval #: TC-21C-152

Model: 7700

Wear at least 10 minutes: YES

Size: Small _____
Med. _____
Lrg. X

+/- Pressure fit check: YES

TEST

Each exercise is performed for one minute

Normal Breathing-No talking

Pass

Fail

X

Deep breathing-be certain breaths are deep

X

Turn head side to side-Inhale on each side, do not bump
the respirator against shoulders

X

Move head up and down-Inhale when head is in full up position,
do not bump respirator against chest.

X

Reading-with eyes closed, repeat slowly and clearly after the
conductor the "Rainbow Passage"

X

Jogging in place-Jog in place

X

Normal breathing-No talking

X

FINAL FIT:

Supervisor Signature: _____

Employee Signature: Richard Griffin

** Employee must have a current qualitative fit test before assigning them a task that requires a respirator to be worn.

OCCUHEALTH
726 BROADWAY #201
SEATTLE, WA 98122
(206)682-2234

ASBESTOS SURVEILLANCE REPORT

NAME: RICHARD GRIFFEN

COMPANY: IRS

DATE OF EXAM: 11/11/2005

BASELINE: _____

ANNUAL: XX

EXIT: _____

20 YRS

Based on the exam performed at OCCUHEALTH, including review of the asbestos questionnaire, pulmonary function screening and chest x-ray: 11/11/05

☒ No medical condition was detected which would place this individual at risk of health impairments from exposure to asbestos.

☒ No limitations are recommended on the planned duties including use of protective equipment including respirator.

☒ The employee was informed by me of the results of testing and of any medical conditions that might be due to asbestos exposure.

☒ This employee was made aware that this was a limited evaluation regarding asbestos exposure and does not replace the need for more complete regular physical examinations by a personal physician and the need to follow sound health practices.

Further recommendations that apply:

☒ This employee was counseled to stop smoking, even when away from asbestos exposure.

Other: _____

Kevin M. O'Keeffe, M.D.

Cynthia L. Rubbert, PA-C



WASHINGTON-OREGON-IDAHO-MONTANA
P.O. BOX 16188 * SEATTLE, WA 98116-0188
(206) 932-0944 FAX (206) 932-5953

ASBESTOS*LEAD
ENVIRONMENTAL
SERVICES

QUALITATIVE FIT TEST RECORD

Name: Jason Olson
Soc. Sec. No.: _____

Issue Date: 2-13-6
Expiration Date: 2-13-7
Test Operator: GRANT BAKER

TYPE OF QUALITATIVE FIT TEST: IRRITANT SMOKE

RESPIRATOR

Respirator brand: North
Model: 7700
Size: Small _____
Med. _____
Lrg. X

NIOSH Approval #: TC-21C-152
Wear at least 10 minutes: yes
+/- Pressure fit check: yes

TEST

Each exercise is performed for one minute

Normal Breathing-No talking

Deep breathing-be certain breaths are deep

Turn head side to side-Inhale on each side, do not bump the respirator against shoulders

Move head up and down-Inhale when head is in full up position, do not bump respirator against chest.

Reading-with eyes closed, repeat slowly and clearly after the conductor the "Rainbow Passage"

Jogging in place-Jog in place

Normal breathing-No talking

Pass	Fail
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

FINAL FIT: PASS

Supervisor Signature: _____

Employee Signature: _____

** Employee must have a current qualitative fit test before assigning them a task that requires a respirator to be worn.

LB

OCCUHEALTH
726 BROADWAY #201
SEATTLE, WA 98122
(206)682-2234

ASBESTOS SURVEILLANCE REPORT

NAME: JASON OLSON BASELINE: _____
COMPANY: IRS ENV ANNUAL: XX
DATE OF EXAM: 5-6-05 EXIT: _____

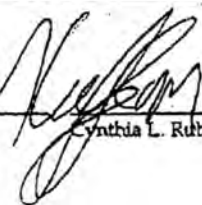
Based on the exam performed at OCCUHEALTH, including review of the asbestos questionnaire, pulmonary function screening and chest x-ray: 4/3/04

- ☒ No medical condition was detected which would place this individual at risk of health impairments from exposure to asbestos.
- ☒ No limitations are recommended on the planned duties including use of protective equipment including respirator.
- ☒ The employee was informed by me of the results of testing and of any medical conditions that might be due to asbestos exposure.
- ☒ This employee was made aware that this was a limited evaluation regarding asbestos exposure and does not replace the need for more complete regular physical examinations by a personal physician and the need to follow sound health practices.

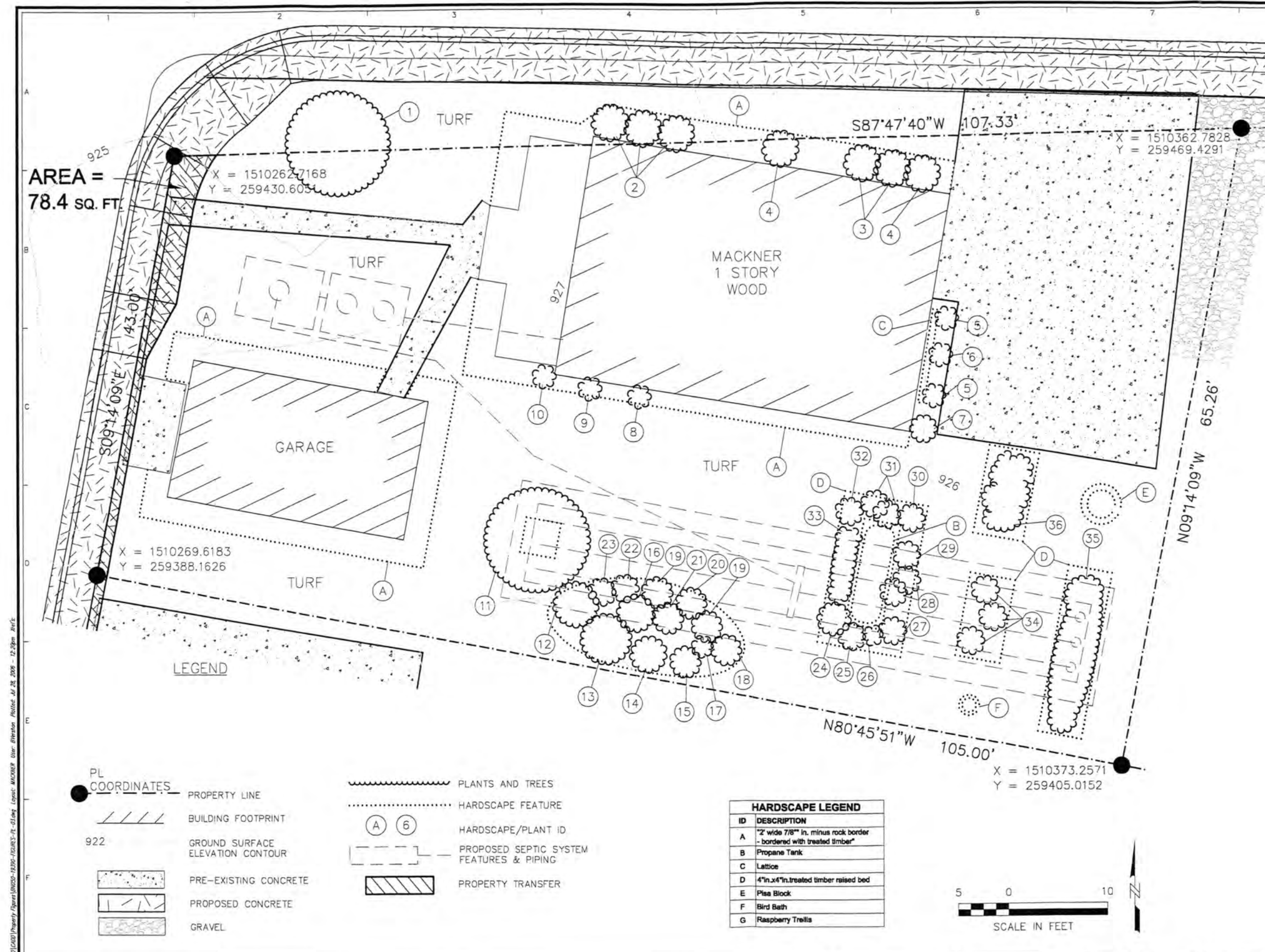
Further recommendations that apply:

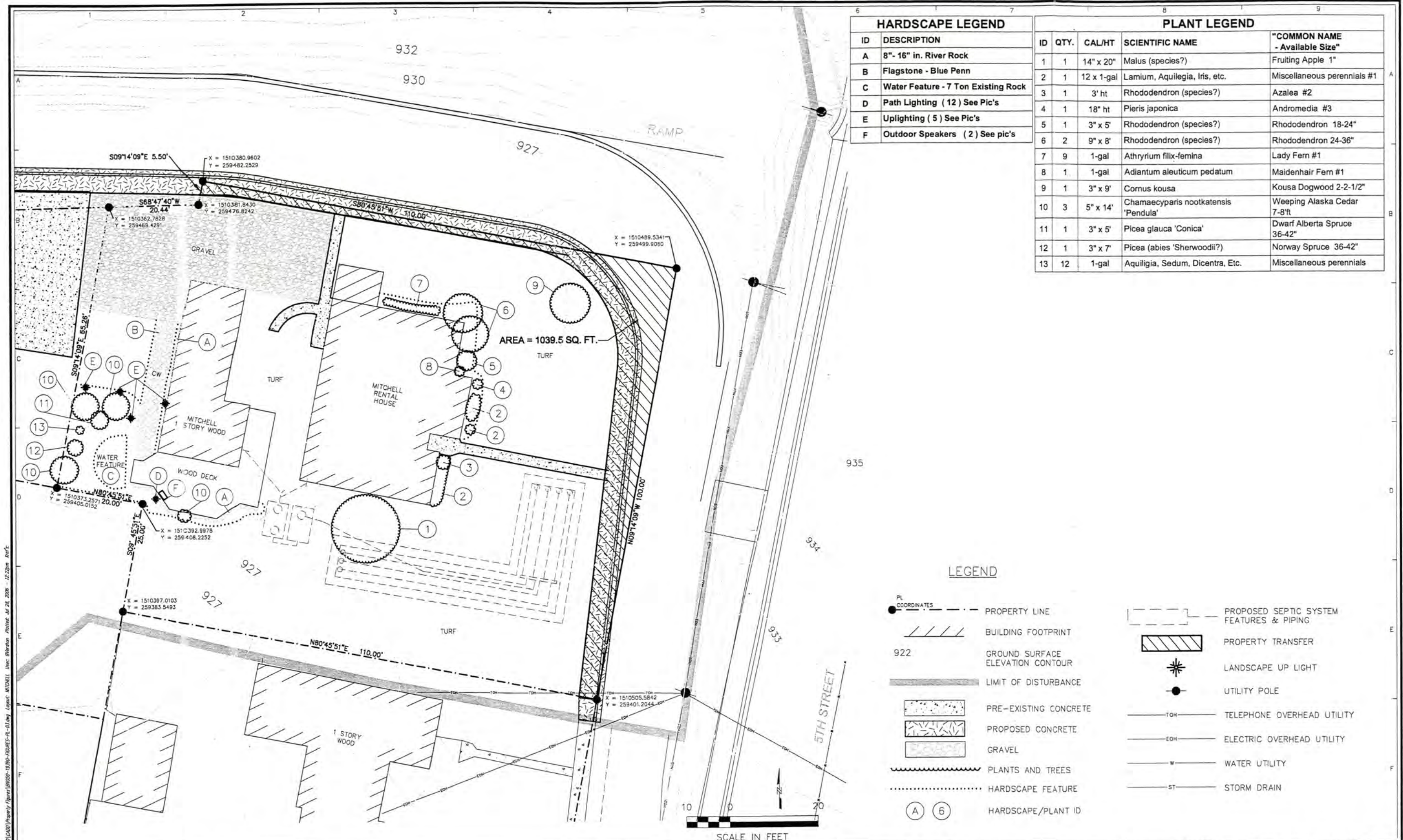
☒ This employee was counseled to stop smoking, even when away from asbestos exposure.

Other: _____


Kevin M. O'Keefe, M.D.

Cynthia L. Rubbert, PA-C

Appendix H
Landscape Plans





HARDSCAPE LEGEND	
ID	DESCRIPTION
A	8"- 16" in. River Rock
B	Flagstone - Blue Penn
C	Water Feature - 7 Ton Existing Rock
D	Path Lighting (12) See Pic's
E	Uplighting (5) See Pic's
F	Outdoor Speakers (2) See pic's

PLANT LEGEND				
ID	QTY.	CAL/HT	SCIENTIFIC NAME	"COMMON NAME - Available Size"
1	1	14" x 20"	Malus (species?)	Fruiting Apple 1"
2	1	12 x 1-gal	Lamium, Aquilegia, Iris, etc.	Miscellaneous perennials #1
3	1	3' ht	Rhododendron (species?)	Azalea #2
4	1	18" ht	Pieris japonica	Andromedia #3
5	1	3" x 5'	Rhododendron (species?)	Rhododendron 18-24"
6	2	9" x 8'	Rhododendron (species?)	Rhododendron 24-36"
7	9	1-gal	Athyrium filix-femina	Lady Fern #1
8	1	1-gal	Adiantum aleuticum pedatum	Maidenhair Fern #1
9	1	3" x 9'	Cornus kousa	Kousa Dogwood 2-2-1/2"
10	3	5" x 14'	Chamaecyparis nootkatensis 'Pendula'	Weeping Alaska Cedar 7-8'ft
11	1	3" x 5'	Picea glauca 'Conica'	Dwarf Alberta Spruce 36-42"
12	1	3" x 7'	Picea (abies 'Sherwoodii?')	Norway Spruce 36-42"
13	12	1-gal	Aquilegia, Sedum, Dicentra, Etc.	Miscellaneous perennials

LEGEND

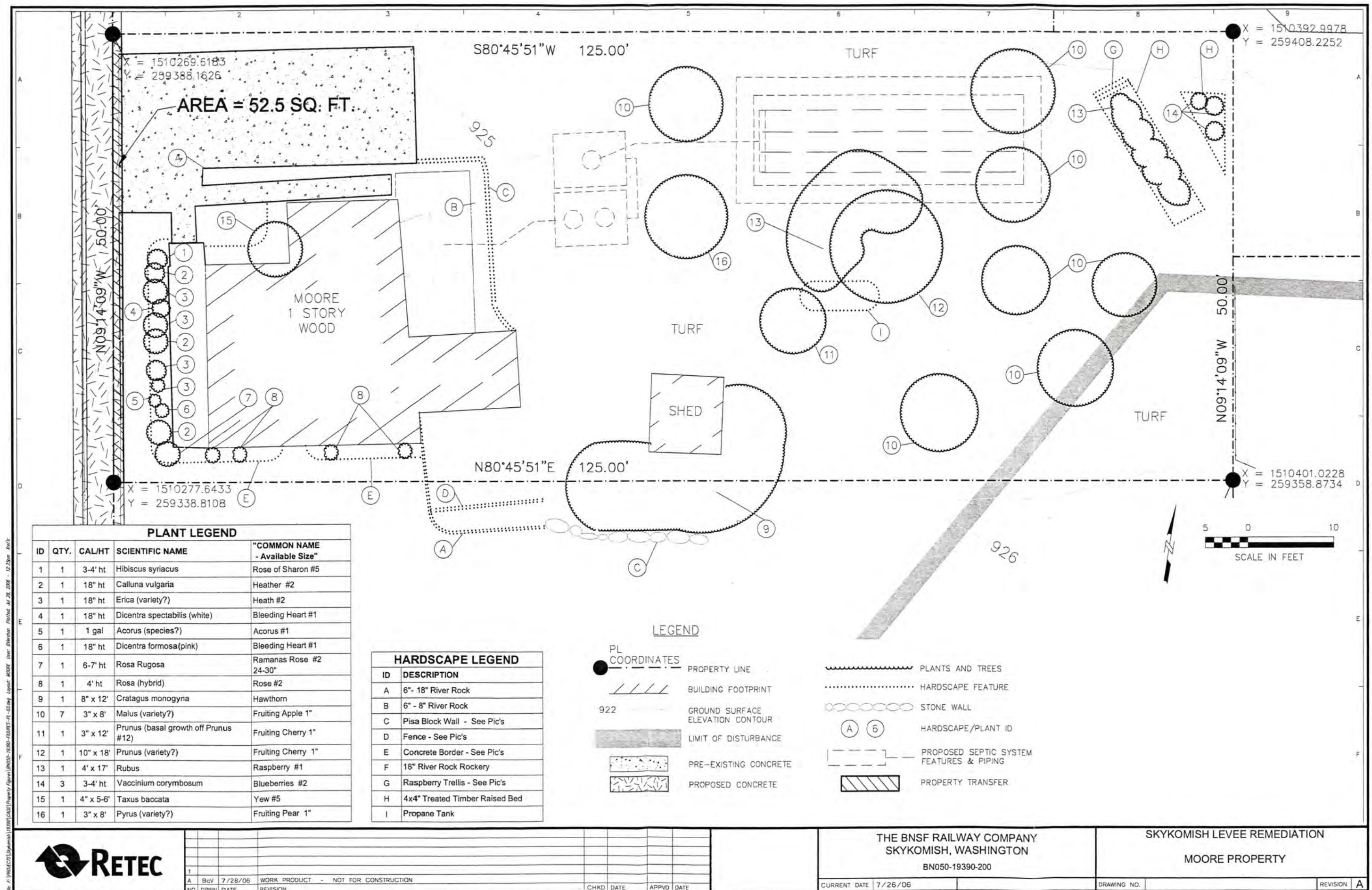
- PL COORDINATES
- PROPERTY LINE
- BUILDING FOOTPRINT
- 922 GROUND SURFACE ELEVATION CONTOUR
- LIMIT OF DISTURBANCE
- PRE-EXISTING CONCRETE
- PROPOSED CONCRETE
- GRAVEL
- PLANTS AND TREES
- HARDSCAPE FEATURE
- HARDSCAPE/PLANT ID
- PROPOSED SEPTIC SYSTEM FEATURES & PIPING
- PROPERTY TRANSFER
- LANDSCAPE UP LIGHT
- UTILITY POLE
- TELEPHONE OVERHEAD UTILITY
- ELECTRIC OVERHEAD UTILITY
- WATER UTILITY
- STORM DRAIN

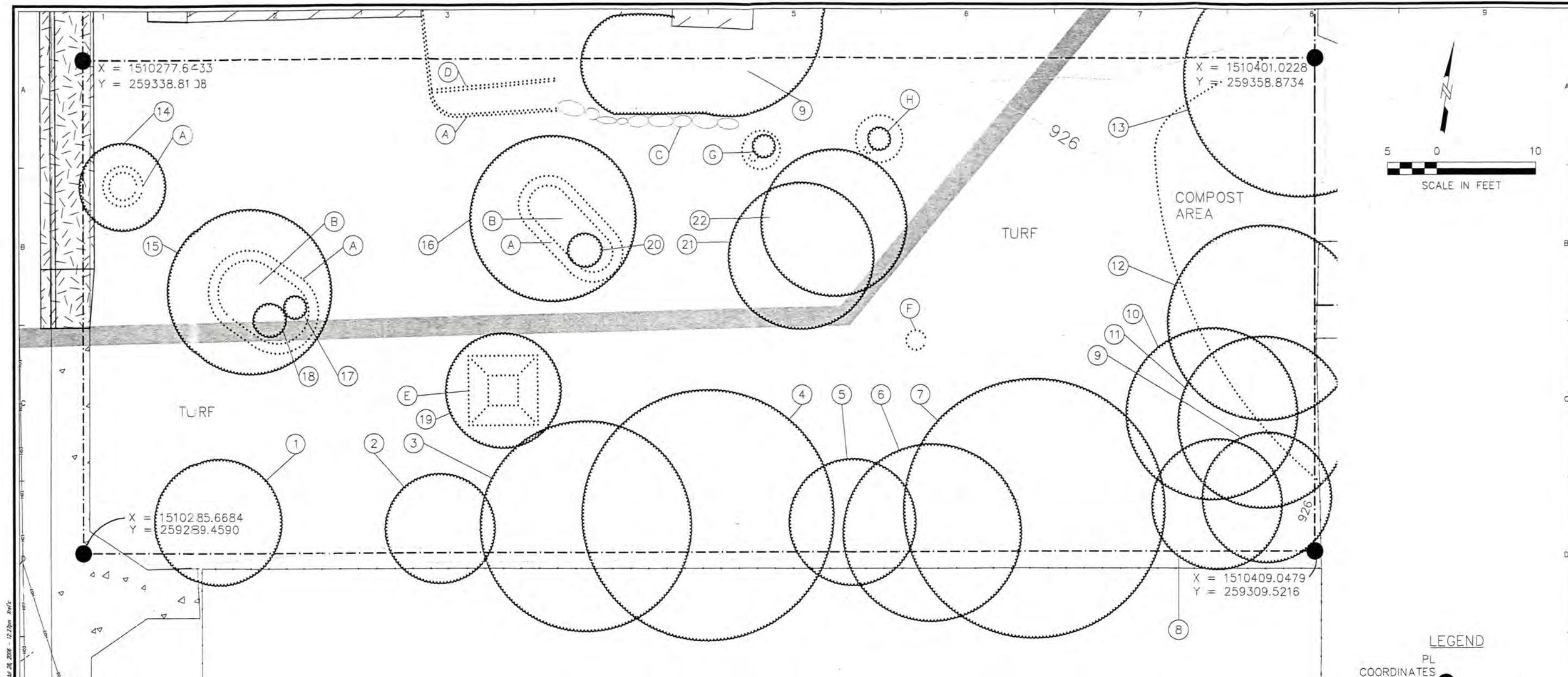


1	A	BcV	7/28/06	WORK PRODUCT - NOT FOR CONSTRUCTION	CHKD DATE	APPVD DATE
NO	DRWN	DATE	REVISION			

THE BNSF RAILWAY COMPANY	
SKYKOMISH, WASHINGTON	
BN050-19390-200	
CURRENT DATE	7/26/06

SKYKOMISH LEVEE REMEDIATION	
MITCHELL PROPERTY	
DRAWING NO.	REVISION A





File: F:\PROJECTS\Skykomish\19390\CAD\Property Figures\BNSF-19390-FIGURES-PL-01.dwg Layout: Skykomish Levee Remediation School Park Property.dwg Date: 7/26/06 12:27pm

PLANT LEGEND				
ID	QTY.	CAL/HT	SCIENTIFIC NAME	"COMMON NAME - Available Size"
1	1	8" x 14'	Ilex aquifolium	English Holly 7-8 ft
2	1	3" x 12'	Ilex aquifolium	English Holly 7-8 ft
3	1	8-10" x 55'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
4	1	24" x 55'	Populus tremuloides	Q. Aspen 2-1/2 - 3"
5	1	4" x 15'	Crateagus monogyna	Hawthorn 2-1/2 - 3"
6	1	5" x 25'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
7	1	24" x 70'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
8	1	16" x 50'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
9	1	8" x 35'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
10	1	8" x 30'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
11	1	5" x 20'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"

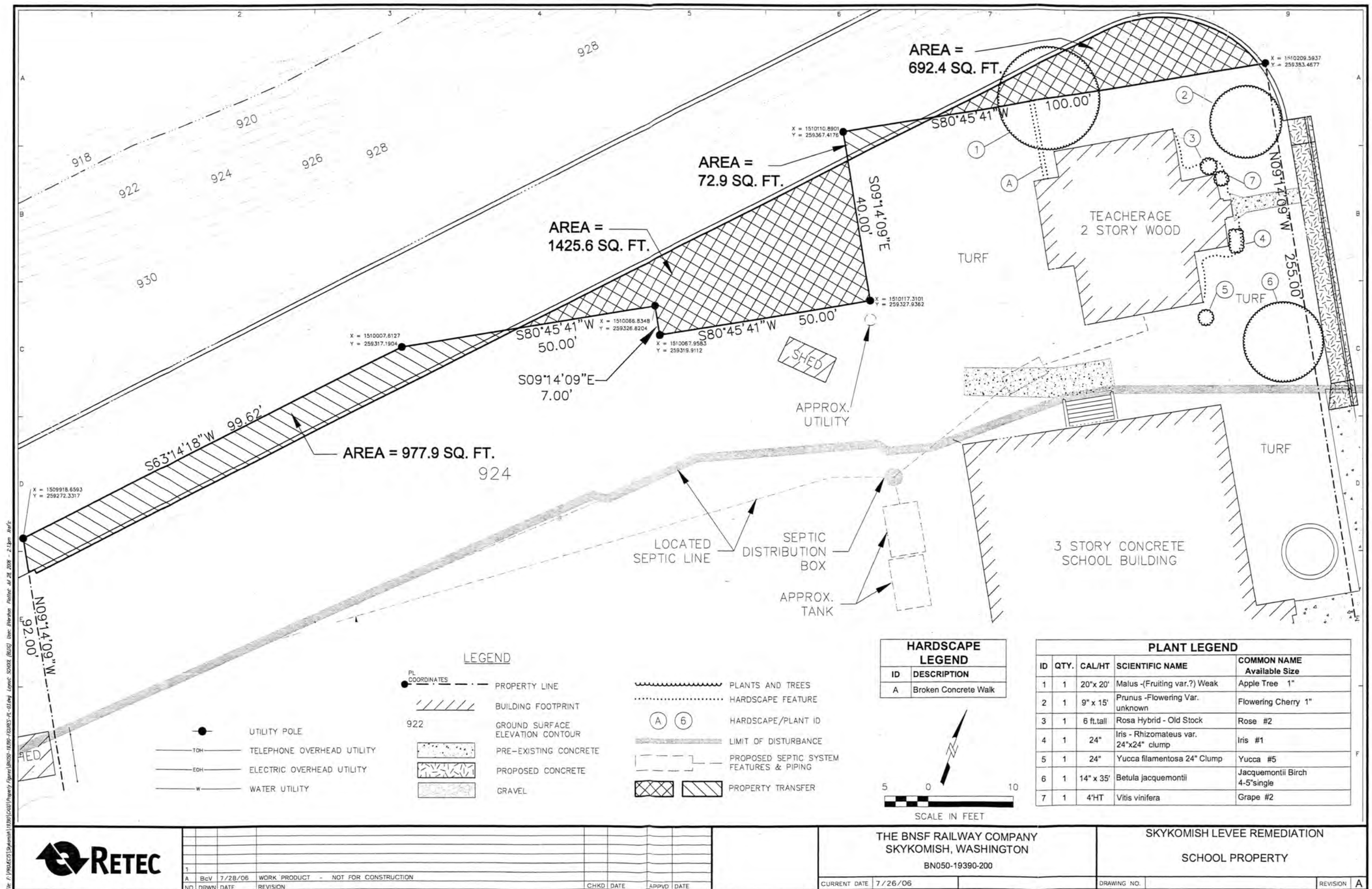
PLANT LEGEND				
ID	QTY.	CAL/HT	SCIENTIFIC NAME	"COMMON NAME - Available Size"
12	1	8" x 30'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
13	1	18" x 30'	Acer macrophyllum	Big Leaf Maple 2"
14	1	3" x 8"	Syringea vulgaris	Lilac 6-7'ft
15	1	16" x 40'	Pseudotsuga menziesii	Douglas Fir 18-20 ft
16	1	16" x 45'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
17	1	12" x 12"	Hedera helix	English Ivy 4"
18	1	24" ht	Polystichum munitum	Western Sword Fern #5
19	1	5" x 10'	Prunus (species unknown)	Flowering Cherry 1"
20	1	24" ht	Polystichum munitum	Western Sword Fern #5
21	1	6" x 20'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"
22	1	4" x 15'	Populus tremuloides	Quaking Aspen 2-1/2 - 3"

HARDSCAPE LEGEND	
ID	DESCRIPTION
A	Pisa Block Wall - 3' High - See Pic's
B	3-12" in. River Rock
C	3-12" in. River Rock
D	Pisa Block Wall - 3' High - See Pic's
E	Wooden Bench - See Pic's
F	Utility
G	Memorial
H	Memorial
I	Pisa Block Wall - 3' High - See Pic's

- LEGEND**
- PL COORDINATES
 - PROPERTY LINE
 - FENCE
 - BUILDING FOOTPRINT
 - LIMIT OF DISTURBANCE
 - PLANTS AND TREES
 - HARDSCAPE FEATURE
 - HARDSCAPE/PLANT ID
 - 922 GROUND SURFACE ELEVATION CONTOUR
 - PRE-EXISTING CONCRETE
 - PROPOSED CONCRETE

1	Bev	7/28/06	WORK PRODUCT - NOT FOR CONSTRUCTION	CHKD DATE	APPROV DATE
NO	DRWN	DATE	REVISION		

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON BN050-19390-200		SKYKOMISH LEVEE REMEDIATION SCHOOL PARK PROPERTY	
CURRENT DATE	7/26/06	DRAWING NO.	REVISION A



Appendix I

DVDs Containing:

- ▶ Air and Noise Data
- ▶ Landscape Plan Photos
- ▶ Weather Data
- ▶ School Survey Video (on two DVDs)