

October 15, 2012

Mr. Walter Sprague
Pacific Convenience & Fuels, LLC
7180 Koll Center Parkway, Suite 100
Pleasanton, CA 94566

1036 W. Taft Avenue
Orange, California 92865
Tel 714-919-6500
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www.environstrategy.com

Remediation System Status Report

Site 01-352
4200 Wheaton Way
Bremerton, Washington

Dear Mr. Sprague:

Environ Strategy Consultants Inc. (Environ Strategy) has prepared this *Remediation System Status Report* (Report) for the above referenced site. The Report summarizes the soil vapor extraction (SVE) system operation, field data and laboratory analytical results collected since system start-up on February 28, 2012.

The SVE system is operated at the site to remediate fuel hydrocarbon-impacted soil. This Report summarizes remediation system operations and performance, field data and analytical results collected during the first six months of system operation. Laboratory data packages are attached as Appendix A.

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to contact us at (714) 919-6500.

Sincerely,
ENVIRON STRATEGY



Dane Nygaard
Project Engineer



Laura Skow, L.G., 2882
Project Manager



LAURA B. SKOW

Remediation System Status Report

SITE INFORMATION AND CONTRACTOR OVERVIEW

| | |
|--------------------------------------|---|
| Site Location: | Site 01-352 4200 Wheaton Way Bremerton, Washington |
| Pacific Convenience & Fuels Contact: | Mr. Walter Sprague |
| Environ Strategy Contact: | Ms. Laura Skow |
| Regulatory Agency: | Ms. Glynis Carrosino Toxics Cleanup Program Washington Dept of Ecology NWRO 3190 160th Avenue SE Bellevue, WA 98008-5452 |
| File No: | VCP No. NW2340 |
| Laboratory Contractor: | Environmental Services Network (ESN) Northwest, Inc. 1210 Eastside Street SE, Suite 200 Olympia, Washington 98501 WADOE Accreditation No. C574-11 |

SITE BACKGROUND

The subject site is located at 4200 Wheaton Way in Bremerton, Washington and is approximately a 0.5-acre rectangular-shaped, outparcel of commercial land located on the northeast corner of Wheaton Way and Hollis Street. The site is a fuel retail station with four underground storage tanks (USTs) and three pump islands that are located near (west of) a single-story convenience store. The USTs include one 6,000-gallon tank (diesel), two 12,000-gallon tanks (regular gasoline) and one 12,000-gallon tank (premium gasoline). The site is relatively flat, covered with asphalt and concrete, and is part of a larger retail shopping center. Surrounding land use includes commercial properties including retail shops and restaurants.

The site lies at an elevation of approximately 300 feet above mean sea level (ft amsl) on a small peninsula within Puget Sound. It is located approximately 2 miles from Port Orchard Waterway,

Remediation System Status Report

Dyes Inlet and Sinclair Inlet, which surround the peninsula to the east, west and south, respectively. A site location map is provided as Figure 1. Pertinent site features are shown on Figure 2.

In September and October 1996, the fuel distribution system at the subject site was upgraded. During system upgrades, hydrocarbon-affected soil was encountered in the tank cavity and 450 tons of impacted soil was excavated and transported to a disposal facility in Tacoma, Washington. The release was reported to the Washington Department of Ecology (DOE) and five verification soil samples were collected from the tank cavity for laboratory analysis. In addition, five soil samples were collected from the beneath the product lines and pump islands. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds and total petroleum hydrocarbons quantified as gasoline (TPH-Gx). Hydrocarbon impacts in excess of MTCA Method A Cleanup Levels were identified in all ten soil samples. Specifically, the highest levels of fuel hydrocarbons were reported in a composite sample (identified as N&E Wall-8'), which was collected from the north and east sidewall of the diesel tank cavity at a depth of 8 feet. Sample N&E Wall-8' contained TPH-Gx at 7,220 milligrams per kilogram (mg/kg), benzene at 27.6 mg/kg, toluene at 191 mg/kg, ethylbenzene at 111 mg/kg and total xylenes at 626 mg/kg.

In June 1997, Clearwater conducted subsurface site assessment activities. During Clearwater's investigation, 17 soil borings (GP-1 through GP-17) were installed at various locations around the site to delineate the extent of hydrocarbon-affected soil. Borings were terminated at a depth of 17 feet bgs due to refusal. Twenty-six (26) soil samples collected from the borings were analyzed for TPH-Gx and BTEX compounds. Hydrocarbon-affected soil was detected in a majority of the soil borings. The highest concentration of TPH-Gx (1,410 mg/kg) was in a 10-foot sample from boring GP-7 located near the southwest corner of the tank cavity. Similarly, benzene was detected at a maximum level of 11.9 mg/kg in a 10-foot sample collected from GP-5 located east of the existing tank cavity.

In May 2010, Environ Strategy conducted an additional site assessment to evaluate subsurface conditions in the vicinity of the fuel distribution system (USTs and pump islands). Six soil borings (identified as SB-1 through SB-6) were advanced, of which, Borings SB-1, SB-2 and SB-3 were located near the existing tank cavity and advanced to a depth of 30 feet. Borings SB-4, SB-5 and SB-6 were drilled at the west end of the southern, central and northern pump islands, respectively, and extended to a depth of 25 feet at SB-4 and to 20 feet bgs at SB-5 and SB-6. Assessment findings are detailed in the *Focused Phase II Site Assessment Report*, dated

Remediation System Status Report

May 30, 2010.

Based on the results of site assessment, an SVE system was designed and vapor extraction wells VE-1 through VE-4 were installed from March 29 to 31, 2011. Remediation by SVE was pilot tested at the site from April 4 to 7, 2011, and proved effective at removing hydrocarbons from subsurface soil, as detailed in the *Soil Vapor Extraction Well Installation and Pilot Test Report*, dated June 21, 2011.

REMEDATION ACTIVITIES PERFORMED

- An application for an air discharge permit for the operation of SVE equipment at the site for the remediation of hydrocarbons in soil was submitted on June 6, 2011.
- The air discharge permit for the operation of SVE equipment at the site was received from the Puget Sound Clean Air Agency on November 7, 2011.
- SVE system trenching and underground conveyance piping was installed in the Fourth Quarter of 2011 by Clearcreek Contractors of Everett, Washington. A thermal oxidizer was subsequently installed and tested to comply with the air discharge permit.
- On February 15, 2012, baseline samples were collected to demonstrate compliance with the air discharge permit requirements. Laboratory analytical reports are attached in Appendix A.
- On February 28, 2012, the SVE system began continuous operation for the remediation of hydrocarbons in subsurface soil. Environ Strategy began bi-monthly site visits for operation and maintenance (O&M) of the system. Vapor flow rates, vacuum, system temperatures, and concentrations of unspeciated hydrocarbons in vapor in system influent, effluent, and individual wells were recorded at each visit. Vapor samples were collected monthly from system influent and effluent sample ports and submitted for laboratory analysis. Field data is summarized in Table 1. Individual well data is summarized in Table 2. Field data sheets are attached in Appendix B.
- Influent concentrations of total petroleum hydrocarbons quantified as gasoline (TPH-Gx) ranged from 44,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) on June 19, 2012, to 3,300,000 $\mu\text{g}/\text{m}^3$ on February 15, 2012, according to laboratory analytical reports. Laboratory analytical results are summarized in Table 3.
- Hydrocarbon removal rates during the first six months of operation ranged from 45 pounds per day in March 2012 to 1,492 pounds per day in August 2012, as calculated from field photo-ionization detector (PID) measurements (Table 1).

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- The system was found off on July 17, 2012, due to suspected power interruption and was re-started.
- In August 2012, the system was found to be shutting off due to backpressure caused by plugging in the catalytic cell. The catalytic cell was cleaned and reinstalled in September 2012.

DISCUSSION AND CONCLUSIONS

Field observations and laboratory test results during the first six months of remediation demonstrate that soil vapor extraction is effective at removing petroleum constituents from subsurface soil beneath the site. During the first six months of operation, an estimated total of 7,461 pounds of petroleum hydrocarbons were extracted from the site subsurface, thermally treated and discharged. Trends in hydrocarbon concentrations in vapor, cumulative mass removed and individual well concentrations are graphically illustrated in Graphs 1 and 2. As shown in Graph 1, hydrocarbon concentrations in system influent vapor have fluctuated since system start-up but show an increasing trend as select extraction wells are opened/closed to optimize system performance (Tables 1 and 2). Field PID readings from the individual extraction wells show hydrocarbon concentrations have fluctuated over time and exhibit an increase during the recent dry season (Graph 2).

Based on 2010 soil data, the site is estimated to contain approximately 42,354 pounds of hydrocarbons in soil (Table 4), considerably higher than estimates based on previous soil sample data. It should be noted that the hydrocarbon mass estimate is based on available data and calculated averages assuming distribution is uniform within the specified depth intervals and estimated area of impact. Although hydrocarbon removal rates have increased during the dry season; based on the current hydrocarbon removal rate and the expectation that removal rates will decline as the amount of remaining hydrocarbons decreases, a minimum of six additional months of system operation is estimated to be required to remove remaining hydrocarbons in soil to achieve target concentrations.

Environ Strategy is pleased to be of service to Mr. Walter Sprague and Pacific Convenience & Fuels, Inc. If there are questions regarding this report or if additional site information is required, please do not hesitate to contact Environ Strategy at (714) 919-6500.

Remediation System Status Report

ATTACHMENTS:

FIGURES

- | | |
|-----------|----------------------------------|
| Figure 1: | Site Location Map |
| Figure 2: | Site Plan Showing Well Locations |

TABLES

- | | |
|----------|---|
| Table 1: | Summary of Vapor Extraction System Operational Data |
| Table 2: | SVE Well Data |
| Table 3: | SVE Influent and Effluent Analytical Data |
| Table 4: | Subsurface Hydrocarbon Mass Calculations |

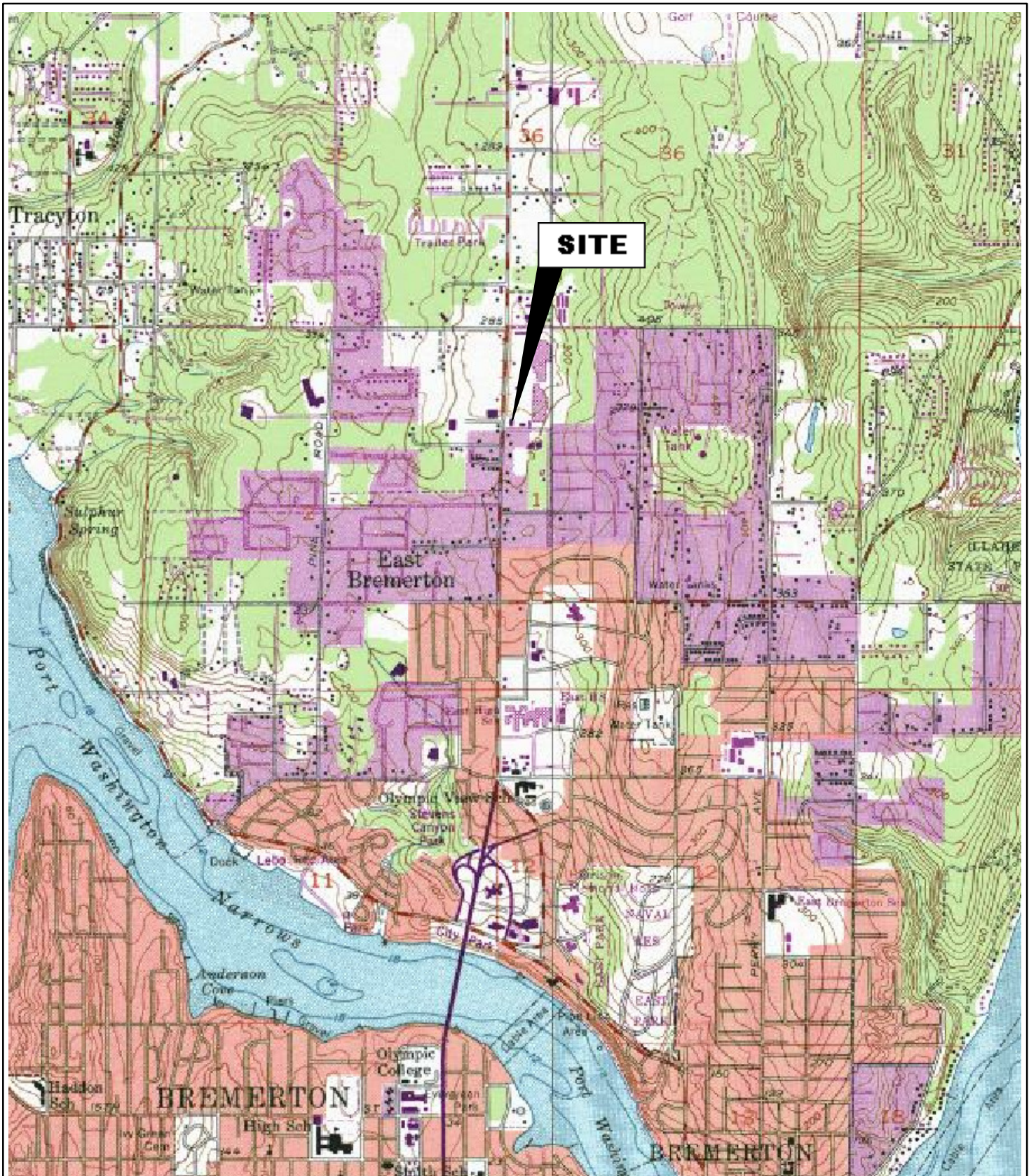
GRAPHS

- | | |
|----------|--|
| Graph 1: | Vapor Extraction Remediation System – Mass Removal Trend |
| Graph 2: | Vapor Extraction Remediation System – Hydrocarbon Concentrations by Well |

APPENDICES

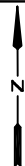
- | | |
|-------------|-------------------------------|
| Appendix A: | Laboratory Analytical Reports |
| Appendix B: | Field Data Sheets |

FIGURES



Map Information: Maptech
Terrain Navigator—2nd Ed.—San Juan Island
Olympic Peninsula/Sea-Tac (WA)
42°36'10"N 122°37'42"W

environ strategy consultants, inc. **es**
One Technology Drive, Suite B-123
Irvine, California 92618



0 2000

APPROX. SCALE: 1" = 2000'

FIGURE 1 SITE LOCATION MAP

Pacific Convenience & Fuels
Site #01-352
4200 Wheaton Way
Bremerton, Washington

DATE
05/13/10

PROJECT NO.
623

FILE NO.
623F1—SLM

TABLES

TABLE 1
Summary of Soil Vapor Extraction System Operational Data
Site 01-352
Bremerton, Washington
1 of 1

| Date | Hour Meter Reading | Calculated Operational Hours | Operational Hours | # of Wells Online | Influent Vacuum (in H ₂ O) | System Combustion Temp (°F) | Temp below cat. Bed (°F) | Temp above cat. Bed (°F) | Flow (acfm) | Influent PID Reading (ppmV) | Effluent PID Reading (ppmV) | Hydrocarbon Mass Removed (lbs) | Hydrocarbon Removal Rate (lbs/day) | Remarks |
|-----------|--------------------|------------------------------|-------------------|-------------------|---------------------------------------|-----------------------------|--------------------------|--------------------------|-------------|-----------------------------|-----------------------------|--------------------------------|------------------------------------|---|
| 2/28/2012 | 603,986 | | - | 4 | 18 | 625 | 665 | 896 | 82 | 600 | - | - | - | |
| 3/14/2012 | 604,346 | 360 | 360 | 4 | 60 | 620 | 620 | 740 | 197 | 800 | 5 | 676 | 45 | |
| 3/30/2012 | 604,730 | 744 | 744 | 4 | 68 | 625 | 630 | 700 | 188 | 450 | 4 | 1,290 | 38 | |
| 4/10/2012 | 604,994 | 1,008 | 1,008 | 4 | 58 | 640 | 692 | 690 | 190 | 492 | - | 1,612 | 29 | |
| 5/15/2012 | 605,834 | 1,848 | 1,848 | 4 | 45 | 650 | 650 | 699 | 170 | 1,199 | - | 3,256 | 47 | |
| 5/30/2012 | 606,194 | 2,208 | 2,208 | 4 | 48 | 650 | 650 | 677 | 176 | 1,009 | - | 4,208 | 63 | |
| 6/19/2012 | 630,872 | 2,688 | 2,688 | 3 | 45 | 600 | 600 | 602 | 160 | 660 | 3 | 5,081 | 44 | |
| 6/30/2012 | 633,512 | 2,952 | 2,952 | 2 | 59 | 650 | 650 | 687 | 176 | 700 | 5 | 5,511 | 39 | Wells #3 and #4 closed due to decreasing concentrations |
| 7/17/2012 | 636,688 | 3,360 | 3,360 | 3 | 55 | 650 | 680 | 700 | 140 | 948 | 8.4 | 6,152 | 38 | System found down due to power outage, storms in area |
| 7/31/2012 | 636,688 | 3,696 | 3,696 | 2 | 59 | 650 | 650 | 687 | 176 | 400 | 9 | 6,694 | 39 | |
| 8/15/2012 | 637,404 | 4,056 | 4,056 | 3 | 65 | 650 | 650 | 699 | 90 | 1,200 | - | 7,047 | 24 | |
| 8/20/2012 | 638,122 | 4,176 | 4,176 | 3 | 48 | 650 | 650 | 677 | 176 | 1,678 | - | 7,461 | 83 | System shutting down due to cat cell likely plugged |

Notes and abbreviations:

Hydrocarbon removal rate and cumulative hydrocarbon removal were calculated using the following formula:

$$\text{lbs} = \frac{\text{ppmv} (60 \text{ min/hr}) (24 \text{ hr/day}) (\text{acfm}) (86 \text{ lb/lb-mole})}{(1,000,000) (379 \text{ ft}^3/\text{lb-mole})}$$

Where: ppmv = average hydrocarbon concentration in parts per million by volume
ft/min = velocity or flow rate in standard cubic feet per minute
acfm = vapor flow rate in actual cubic feet per minute
86 lb/lb-mole = average molecular weight of gasoline
379 ft³/lb-mole = average molar weight of air

- : zero
lbs: pounds
lbs/day: pounds per day
PID: photo-ionization detector calibrated to hexane
ppmv: parts per million by volume
acfm: actual cubic feet per minute
in H₂O: inches of water

TABLE 2
SVE Well Data
Site 01-352
Bremerton, Washington
1 of 1

| | #1 | Vac | Status | Flow | #2 | Vac | Status | Flow | #3 | Vac | Status | Flow | #4 | Vac | Status | Flow |
|----------|--------|---------------------|--------|--------|--------|---------------------|--------|--------|--------|---------------------|--------|--------|--------|---------------------|--------|--------|
| Date | (ppmv) | (H ² O") | (%) | (acfm) | (ppmv) | (H ² O") | (%) | (acfm) | (ppmv) | (H ² O") | (%) | (acfm) | (ppmv) | (H ² O") | (%) | (acfm) |
| 02/28/12 | 230 | 12 | 100% | - | 400 | 10 | 100% | - | 130 | 11 | 100% | - | 278 | 10 | 100% | - |
| 03/14/12 | 1,220 | 29 | 100% | 60 | 280 | 30 | 100% | 60 | 380 | 25 | 100% | 60 | 227 | 27 | 100% | 60 |
| 03/30/12 | 1,007 | 28 | 100% | 55 | 125 | 29 | 100% | 45 | 270 | 30 | 100% | 60 | 200 | 30 | 100% | 58 |
| 04/10/12 | 1,262 | 31 | 100% | - | 298 | 30 | 100% | - | 272 | 22 | 100% | - | 325 | 31 | 100% | - |
| 05/15/12 | 296 | 32.5 | 100% | 45 | 767 | 26 | 100% | 40 | 638 | 26 | 100% | 40 | 1,125 | 28.6 | 100% | 45 |
| 05/30/12 | 250 | 36 | 100% | 45 | 600 | 26 | 100% | 45 | 555 | 26 | 100% | 45 | 980 | 30 | 100% | 44 |
| 06/19/12 | 692 | 34 | 100% | 45 | 780 | 35 | 100% | 40 | 400 | 34 | 50% | 40 | - | - | 0% | - |
| 06/30/12 | 680 | 54 | 100% | 45 | 230 | 30 | 50% | 45 | - | - | 0% | - | - | - | 0% | - |
| 07/17/12 | 220 | 42 | 100% | 40 | 200 | 38 | 100% | 40 | 85 | 34 | 50% | 40 | - | - | 0% | - |
| 07/31/12 | 280 | 54 | 100% | 67 | 230 | 55 | 100% | 59 | - | - | 0% | - | - | - | 0% | - |
| 08/15/12 | 306 | 52.5 | 100% | 40 | 445 | 50 | 100% | 40 | 500 | 50 | 100% | 40 | - | - | 0% | - |
| 08/20/12 | 2,065 | 36 | 100% | 45 | 802 | 34 | 100% | 45 | 462 | 35 | 100% | 45 | - | - | 0% | - |

Notes:

System start up on 02/28/2012

H²O" = inches of water

ppmv = parts per million by volume, based on field photo-ionization detector readings

acfm = actual cubic feet per minute

1% LEL = 138 ppmv (approximately)

"-" = not measured

%: percent

Status: well status, percent open

Vac: vacuum

TABLE 3
SVE Influent and Effluent Analytical Data
Site 01-352
Bremerton, Washington
1 of 1

| SYSTEM VAPOR EXTRACTION | EPA METHOD 8260 | | | | |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | INLET | TPH-Gx | Benzene | Toluene | Ethylbenzene |
| Date | μg/m ³ | μg/m ³ | μg/m ³ | μg/m ³ | μg/m ³ |
| 02/15/12 | 3,300,000 | 29,000 | 22,000 | 13,000 | 40,000 |
| 03/14/12 | 1,400,000 | 13,000 | 29,000 | 9,000 | 31,000 |
| 04/10/12 | 90,000 | 410 | 860 | 410 | 1,500 |
| 05/15/12 | 74,000 | 360 | 890 | 220 | 1,100 |
| 06/19/12 | 44,000 | 280 | 1,100 | 170 | 1,100 |
| 07/17/12 | 170,000 | 160 | 890 | 320 | 2,600 |
| 08/20/12 | 1,400,000 | 870 | 2,700 | 340 | 2,600 |

| EPA METHOD 8260 | | | | | |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| OUTLET | TPH-Gx | Benzene | Toluene | Ethylbenzene | Xylenes |
| Date | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| 02/15/12 | 38,000 | <100 | 110 | <100 | 260 |
| 03/14/12 | 32,000 | <100 | <100 | <100 | <100 |
| 04/10/12 | 4,200 | 8.9 | 19 | 8.3 | 38 |
| 05/15/12 | 6,900 | 13 | 54 | 22 | 180 |
| 06/19/12 | 7,500 | <10 | <10 | <10 | 17 |
| 07/17/12 | 5,100 | 13 | 22 | <10 | 35 |
| 08/20/12 | 19,000 | 21 | 38 | <10 | 37 |

Notes:

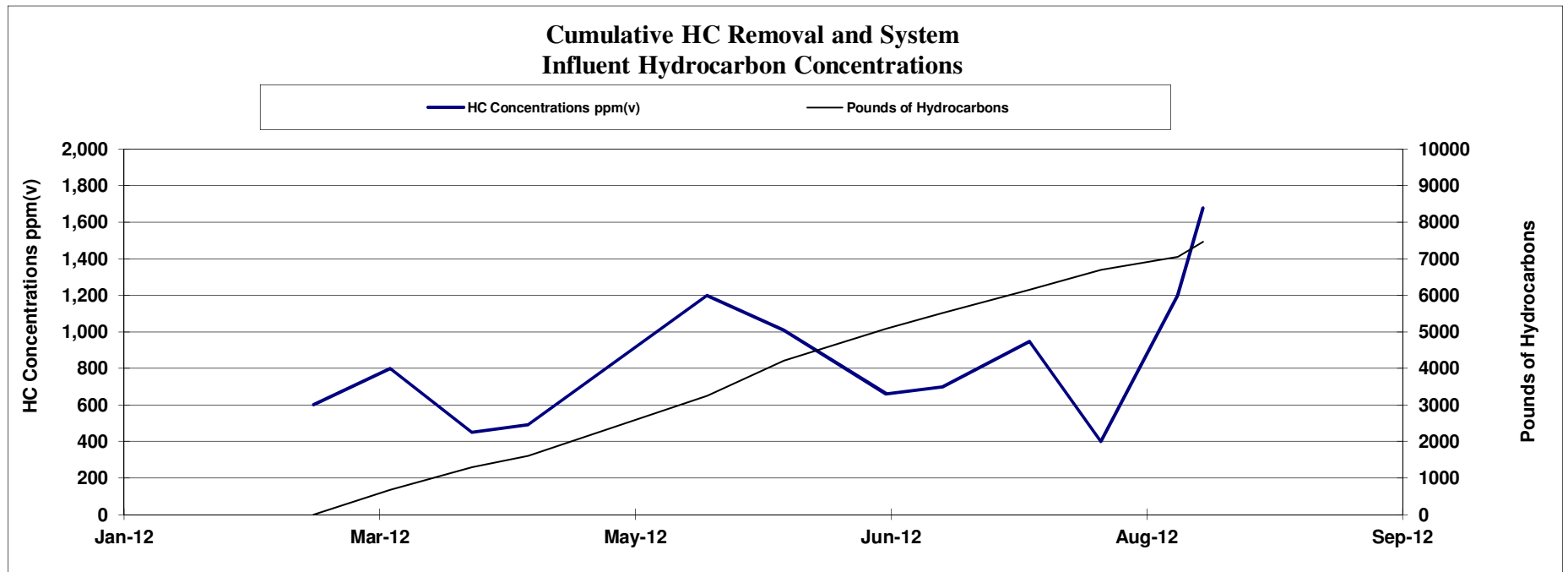
<100 = not detected at listed detection limit

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

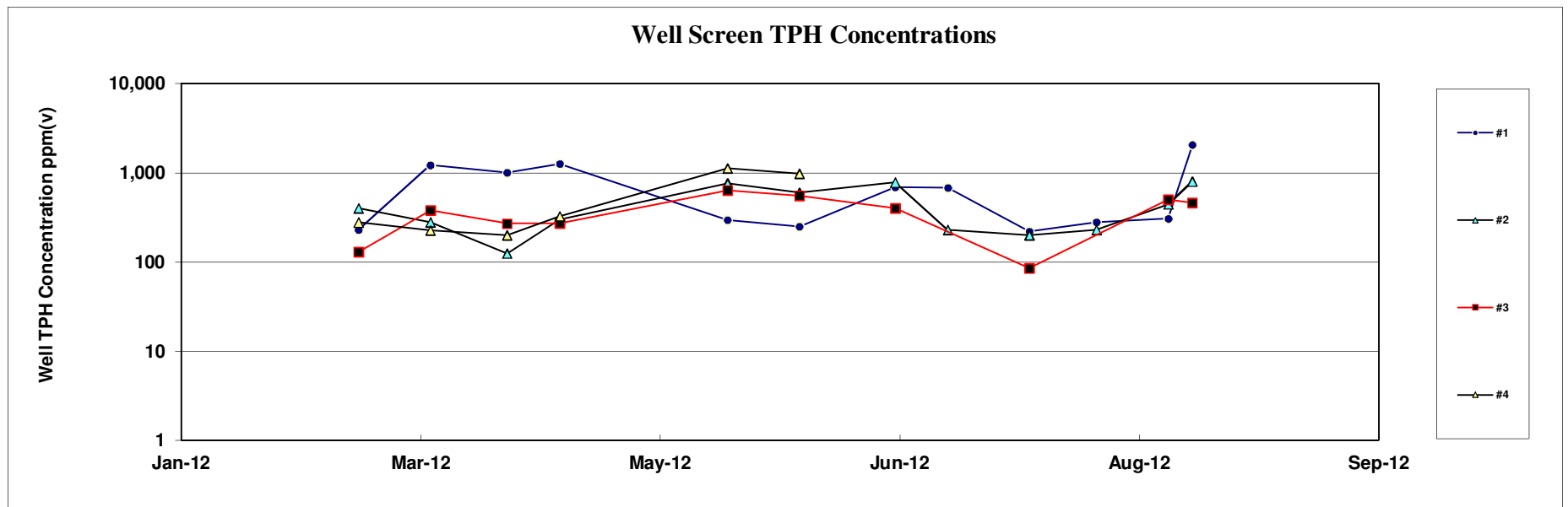
TPH-Gx: total petroleum hydrocarbons quantified as gasoline

GRAPHS

GRAPH 1
Vapor Extraction System - Mass Removal Trend
Site 01-352
Bremerton, Washington



GRAPH 2
Vapor Extraction System - Hydrocarbon Concentrations by Well
Site 01-352
Bremerton, Washington



APPENDIX A

Laboratory Analytical Reports

February 16, 2012

Dane Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF-Site 352 Project in Bremerton, Washington. Soil vapor samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on February 15, 2012.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF-SITE 352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics, BTEX in Soil Vapor by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Xylenes (ug/L) | Gasoline Range Organics (ug/L) | Surrogate Recovery (%) |
|----------------------|---------------|----------------|----------------|---------------------|----------------|--------------------------------|------------------------|
| Method Blank | 2/15/2012 | nd | nd | nd | nd | nd | 113 |
| LCS | 2/15/2012 | 104% | 110% | 103% | 103% | 91% | 106 |
| LCSD | 2/15/2012 | 93% | 94% | 94% | 91% | --- | 106 |
| Inlet-021412 | 2/15/2012 | 29 | 22 | 13 | 40 | 3300 | 116 |
| Out-021412 | 2/15/2012 | nd | 0.11 | nd | 0.26 | 38 | 115 |
| Out-021412 Duplicate | 2/15/2012 | nd | 0.11 | nd | 0.26 | 38 | 116 |
| Reporting Limits | | 0.1 | 0.1 | 0.1 | 0.1 | 10 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

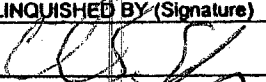
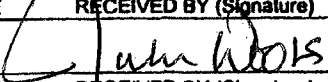
ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: ENVIRON STRATEGY DATE: 2/14/12 PAGE 1 OF 1
 ADDRESS: 1036 W TAFT AVE, STE. 200, DREDEGE, CA 92865 PROJECT NAME: PLF-SHE 352
 PHONE: (714) 919-6500 FAX: (714) 919-6501 LOCATION: BREMERTON, WA
 CLIENT PROJECT #: 623 PROJECT MANAGER: DANE NYGAARD COLLECTOR: C SWIFT DATE OF COLLECTION: 2/14

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | NOTES | Total Number of Containers | Laboratory Note Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | TPH-ACID | TPH - DIESEL & OIL | TPH - GASOLINE | BTEX | VOC 8260CL | VOC 8260 | SemiVol 8270 | PAHs 8270 | PCB's 8082 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | WO Suite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. INET-021412 | | 4:00 | AIR | TEDLAR | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) | DATE/TIME | SAMPLE RECEIPT | | LABORATORY NOTES: |
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| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) | DATE/TIME | CHAIN OF CUSTODY SEALS Y/N/NA | | |
| | | | | SEALS INTACT? Y/N/NA | | |
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Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF-Site 352 Project in Bremerton, Washington. One soil vapor sample was analyzed for Gasoline by NWTPH-Gx, BTEX by Method 8260, and Pb by Method 6020 on March 16, 2012.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy Consultants
PCF-SITE 352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics, BTEX in Soil Vapor by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Xylenes (ug/L) | Gasoline Range Organics (ug/L) | Surrogate Recovery (%) |
|------------------|---------------|----------------|----------------|---------------------|----------------|--------------------------------|------------------------|
| Method Blank | 3/16/2012 | nd | nd | nd | nd | nd | 95 |
| LCS | 3/16/2012 | 90% | 95% | 94% | 87% | 101% | 90 |
| LCSD | 3/16/2012 | 90% | 95% | 96% | 91% | --- | 90 |
| IN-031412 | 3/16/2012 | 13 | 29 | 9.0 | 31 | 1400 | 99 |
| OUT-031412 | 3/16/2012 | nd | nd | nd | nd | 32 | 103 |
| Reporting Limits | | 0.1 | 0.1 | 0.1 | 0.1 | 10 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

 CLIENT: Environ Strategy

 DATE: 3/15/12 PAGE 1 OF 1

 ADDRESS: 1036 W Teha St #200, Merced CA 92815

 PROJECT NAME: PCF-SIL 352

 PHONE: 714-919-6500 FAX: 714-919-6501

 LOCATION: Burnaby, B.C.

 CLIENT PROJECT #: 623 PROJECT MANAGER: Dan Myszal

 COLLECTOR: C. Smith DATE OF COLLECTION: 3/14/12

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | NOTES | Total Number of Containers | Laboratory Note Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|-------------|-------------|----------------|----------|--------------------|----------------|------|------------|----------|-------------|------------|------------|--------------------|---------------|---------------|----|--------------|-----------|-----------|-------|----------------------------|------------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| | | | | | TPH/HClB | TPH - DIESEL & OIL | TPH - GASOLINE | BTEX | VOC 8260CL | VOC 8260 | SemVol 8270 | PAH's 8270 | PCB's 8082 | CL Pesticides 8081 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | | | | WO Suite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <i>IN-031412</i> | | <i>3:00</i> | <i>A</i> | <i>1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

 RELINQUISHED BY (Signature) [Signature] DATE/TIME 3/15/12 7:20 RECEIVED BY (Signature) [Signature] DATE/TIME 3/15/12

 RELINQUISHED BY (Signature) [Signature] DATE/TIME 9:30 RECEIVED BY (Signature) [Signature] DATE/TIME 9:30
SAMPLE DISPOSAL INSTRUCTIONS
☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

 Turn Around Time: 24 HR 48 HR 5 DAY

April 18, 2012

Dane Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF-Site 352 Project in Bremerton, Washington. Air samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on April 11, 2012.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF-SITE 352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analyses of Volatile Organic Compounds in Soil Vapor by Method 8260

| Sample ID | Molecular Weight | Reporting Limits | MB | LCS | LCSD | Inlet 4102012 | Outlet 4102012 |
|----------------------|------------------|------------------|----------|----------|----------|---------------|----------------|
| Date Sampled | | | 04/11/12 | 04/11/12 | 04/11/12 | 04/10/12 | 04/10/12 |
| Date Analyzed | g | ug/m3 | 04/11/12 | 04/11/12 | 04/11/12 | 04/11/12 | 04/11/12 |
| Benzene | 78.11 | 0.1 | nd | 97% | 97% | 410 | 8.9 |
| Toluene | 92.13 | 0.1 | nd | 110% | 96% | 860 | 19 |
| Ethylbenzene | 106.2 | 0.1 | nd | 103% | 104% | 410 | 8.3 |
| Xylenes | 106.2 | 0.1 | nd | 98% | 97% | 1,500 | 38 |
| Gasoline | --- | 10 | nd | 93% | --- | 90,000 | 4,200 |
| Surrogate recoveries | | | | | | | |
| Dibromofluoromethane | | | 108% | 100% | 101% | 94% | 97% |
| Toluene-d8 | | | 99% | 93% | 93% | 119% | 108% |
| 4-Bromofluorobenzene | | | 110% | 95% | 96% | 105% | 100% |

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

CHAIN-OF-CUSTODY RECORD

CLIENT: Business Strategy

DATE: 4-12 PAGE 1 OF 1

ADDRESS: 1076 W. 7th St., Suite 200, New York, NY 10014

PROJECT NAME: 42-5438

PHONE: 714-719-6500 FAX: 714-819-6501

LOCATION: LAUREL CA

CLIENT PROJECT #: 628 PROJECT MANAGER: D. Nguyen

COLLECTOR: C. C. Smith DATE OF COLLECTION 11/11/51

[illegible]

May 21, 2012

Dane Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

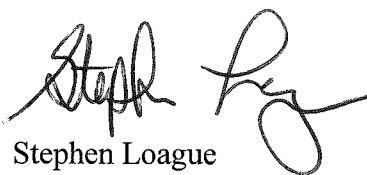
Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF-Site 352 Project in Bremerton, Washington. Air samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on May 16, 2012.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Stephen Loague
Lab Manager

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF #352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics, BTEX in Water by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene ug/m3 | Toluene ug/m3 | Ethylbenzene ug/m3 | Xylenes ug/m3 | Gasoline Range Organics ug/m3 | Surrogate Recovery (%) |
|------------------|---------------|---------------|---------------|--------------------|---------------|-------------------------------|------------------------|
| Method Blank | 5/16/2012 | nd | nd | nd | nd | nd | 115 |
| LCS | 5/16/2012 | 90% | 105% | 90% | 98% | 107% | 96 |
| LCSD | 5/16/2012 | 85% | 84% | 90% | 87% | --- | 100 |
| Inlet 05152012 | 5/16/2012 | 360 | 890 | 220 | 1100 | 74,000 | 102 |
| Outlet 05152012 | 5/16/2012 | 13 | 54 | 22 | 180 | 6900 | 113 |
| Reporting Limits | | 10.0 | 10.0 | 10.0 | 10.0 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: Environ Strategy
 ADDRESS: 1036 W. T.H., Suite 200, Orem, CA 92865
 PHONE: 714-715-6500 FAX: 714-715-6701
 CLIENT PROJECT #: 627 PROJECT MANAGER: Dennis Arnold

DATE: 5/16/12 PAGE _____ OF _____
 PROJECT NAME: PCF # 752
 LOCATION: Remediation, W.D.
 COLLECTOR: C. Smith DATE OF COLLECTION: 5/16/12

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | | NOTES | Total Number of Containers | Laboratory Note Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------|------|-------------|----------------|----------|--------------------|----------------|------|------------|----------|-------------|------------|------------|--------------------|---------------|---------------|----|--------------|-----------|-----------|----------|-------|----------------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | TPH-HCID | TPH - DIESEL & OIL | TPH - GASOLINE | BTEX | VOC 8260CL | VOC 8280 | SemVol 8270 | PAH's 8270 | PCB's 8082 | CL Pesticides 8081 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | WO Suite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. 10/15/12-11 | | | 11A | T/L | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____

RELINQUISHED BY (Signature) [Signature] DATE/TIME 5/16/12-8:00 RECEIVED BY (Signature) [Signature] DATE/TIME 5/16/12-8:00

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS _____
 CHAIN OF CUSTODY SEALS Y/N/NA _____
 SEALS INTACT? Y/N/NA _____
 RECEIVED GOOD COND./COLD _____
 NOTES: _____

LABORATORY NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

June 21, 2012

Dane Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF Site #352 Project in Bremerton, Washington. Soil vapor samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on June 20, 2012.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF #352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics, BTEX in Soil Vapor by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene ug/m3 | Toluene ug/m3 | Ethylbenzene ug/m3 | Xylenes ug/m3 | Gasoline Range Organics ug/m3 | Surrogate Recovery (%) |
|------------------|---------------|---------------|---------------|--------------------|---------------|-------------------------------|------------------------|
| Method Blank | 6/20/2012 | nd | nd | nd | nd | nd | 120 |
| LCS | 6/20/2012 | 102% | 100% | 107% | 108% | 108% | 99 |
| LCSD | 6/20/2012 | 100% | 97% | 101% | 102% | --- | 97 |
| Inlet 05152012 | 6/20/2012 | 280 | 1100 | 170 | 1100 | 44,000 | 115 |
| Outlet 05152012 | 6/20/2012 | nd | nd | nd | 17 | 7500 | 113 |
| Reporting Limits | | 10.0 | 10.0 | 10.0 | 10.0 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: Environ Strategy
 ADDRESS: 1076 W. Telford, Suite 200, Okanogan, CA 92865
 PHONE: 714-719-6300 FAX: 714-719-6301
 CLIENT PROJECT #: 623 PROJECT MANAGER: Dan McGee

DATE: 6/20/12 PAGE 1 OF 1
 PROJECT NAME: PCF # 252
 LOCATION: Bremerton, WA
 COLLECTOR: C. Swift DATE OF COLLECTION: 6/19/12

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | Total Number of Containers | Laboratory Note Number |
|-------------------------------|-------|--------------|-------------|----------------|----------|--------------------|------|-----|------------|-------------|------------|------------|--------------------|---------------|---------------|----|--------------|-----------|-----------|----------|----------------------------|------------------------|
| | | | | | TPH/HCI | TPH - DIESEL & OIL | BTEX | VOC | VOC 8260CL | SemVol 8270 | PAH's 8270 | PCB's 8082 | CL Pesticides 8081 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | WO Suite | | |
| 1. <u>1.1 ft - 06/19/2012</u> | | <u>17:00</u> | <u>A</u> | <u>Tedlon</u> | | X | | | | | | | | | | | | | | | | |
| 2. | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>0.7 ft - 06/19/2012</u> | | <u>17:15</u> | <u>A</u> | <u>Tedlon</u> | | X | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | |
| 11. | | | | | | | | | | | | | | | | | | | | | | |
| 12. | | | | | | | | | | | | | | | | | | | | | | |
| 13. | | | | | | | | | | | | | | | | | | | | | | |
| 14. | | | | | | | | | | | | | | | | | | | | | | |
| 15. | | | | | | | | | | | | | | | | | | | | | | |
| 16. | | | | | | | | | | | | | | | | | | | | | | |
| 17. | | | | | | | | | | | | | | | | | | | | | | |
| 18. | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) [Signature] DATE/TIME 6/20/12 - 9:30 RECEIVED BY (Signature) [Signature] DATE/TIME 6/20/12

RELINQUISHED BY (Signature) [Signature] DATE/TIME 6/20/12 - 9:30 RECEIVED BY (Signature) [Signature] DATE/TIME 6/20/12

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS 2
 CHAIN OF CUSTODY SEALS Y/N/NA Y
 SEALS INTACT? Y/N/NA Y
 RECEIVED GOOD COND./COLD Y
 NOTES:

LABORATORY NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

July 18, 2012

Dane Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF Site 352 Project located in Bremerton, Washington. Soil vapor samples were analyzed for Gasoline by NWTPH-Gx and BTEX by Method 8260 on July 18, 2012.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF #352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Analysis of Gasoline Range Organics, BTEX in Soil Vapor by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene ug/m3 | Toluene ug/m3 | Ethylbenzene ug/m3 | Xylenes ug/m3 | Gasoline Range Organics ug/m3 | Surrogate Recovery (%) |
|------------------|---------------|---------------|---------------|--------------------|---------------|-------------------------------|------------------------|
| Method Blank | 7/18/2012 | nd | nd | nd | nd | nd | 111 |
| LCS | 7/18/2012 | 108% | 116% | 112% | 123% | 92% | 86 |
| LCSD | 7/18/2012 | 92% | 96% | 96% | 103% | --- | 99 |
| Outlet | 7/18/2012 | 13 | 22 | nd | 35 | 5100 | 106 |
| Inlet | 7/18/2012 | 160 | 890 | 320 | 2600 | 170,000 | 108 |
| Reporting Limits | | 10 | 10 | 10 | 10 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: Environ Strategy
 ADDRESS: 1076 W. Tehuacan, Suite 200, Orange CA 92668
 PHONE: 714-719-6200 FAX: 714-519-6101
 CLIENT PROJECT #: 623 PROJECT MANAGER: Don Nygaard

DATE: 7/12/12 PAGE OF
 PROJECT NAME: PCF# 352
 LOCATION: Burns Bay, WA
 COLLECTOR: C. Smith DATE OF COLLECTION: 7/12/12

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | NOTES | Total Number of Containers | Laboratory Note Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|-------------|-------------|----------------|-----------|--------------------|----------------|------|------------|----------|--------------|------------|------------|--------------------|---------------|---------------|----|--------------|-----------|-----------|-------|----------------------------|------------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | TPH/HClID | TPH - DIESEL & OIL | TPH - GASOLINE | BTEX | VOC 8280CL | VOC 8280 | SemiVol 8270 | PAH's 8270 | PCB's 8082 | CL Pesticides 8081 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | | | | WO Suite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Tell-07172012</u> | | <u>6:50</u> | <u>A</u> | <u>1</u> | | | X | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) P. Smith DATE/TIME 7/18/12 1:50 RECEIVED BY (Signature) John Deo DATE/TIME 7/18/12

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
 CHAIN OF CUSTODY SEALS Y/N/A
 SEALS INTACT? Y/N/A
 RECEIVED GOOD COND./COLD
 NOTES:

LABORATORY NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

August 24, 2012

Dan Nygaard
Environ Strategy
1036 West Taft Avenue, Suite 200
Orange, CA 92865

Dear Mr. Nygaard:

Please find enclosed the analytical data report for the PCF Site 352 Project located in Bremerton, Washington. Soil vapor samples were analyzed for Gasoline by NWTPH-Gx and VOC's by Method 8260 on August 23, 2012.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to you for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Environ Strategy
PCF #352 PROJECT
Client Project #623
Bremerton, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnww.com

Analysis of Gasoline Range Organics, BTEX in Soil Vapor by Method NWTPH-Gx/8260

| Sample Number | Date Analyzed | Benzene ug/m3 | Toluene ug/m3 | Ethylbenzene ug/m3 | Xylenes ug/m3 | Gasoline Range Organics ug/m3 | Surrogate Recovery (%) |
|------------------|---------------|---------------|---------------|--------------------|---------------|-------------------------------|------------------------|
| Method Blank | 8/23/2012 | nd | nd | nd | nd | nd | 102 |
| LCS | 8/23/2012 | 112% | 113% | 113% | 120% | 87% | 94 |
| LCSD | 8/23/2012 | 109% | 110% | 112% | 118% | --- | 90 |
| Outlet | 8/23/2012 | 21 | 38 | nd | 37 | 19,000 | 106 |
| Outlet Duplicate | 8/23/2012 | 20 | 43 | nd | 41 | 19,000 | 94 |
| Inlet | 8/23/2012 | 870 | 2700 | 340 | 2600 | 1,400,000 | 102 |
| Reporting Limits | | 10 | 10 | 10 | 10 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

CHAIN-OF-CUSTODY RECORD

CLIENT: Laviana Slattery
 ADDRESS: 1626 W Tehama Ave, Okanogan, CA 92865
 PHONE: 714-919-6500 FAX: 714-919-6501
 CLIENT PROJECT #: 623 PROJECT MANAGER: Dore Nygaard

DATE: 8/21/12 PAGE OF
 PROJECT NAME: PCF-S4 352
 LOCATION: Burnaby, WA
 COLLECTOR: Charles Smith DATE OF COLLECTION: 8/21/12

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | | | | | | | | | | | | | | | | NOTES | Total Number of Containers | Laboratory Note Number | | | | |
|-------------------|-------|------|-------------|----------------|----------|--------------------|----------------|------|------------|----------|-------------|------------|------------|--------------------|---------------|---------------|----|--------------|-----------|-----------|-------|----------------------------|------------------------|----------|--|--|--|
| | | | | | TPH-ACID | TPH - DIESEL & OIL | TPH - GASOLINE | BTEX | VOC 8260CL | VOC 8280 | SemVol 8270 | PAH's 8270 | PCB's 8082 | CL Pesticides 8081 | RCRA 8 Metals | MTCA 5 Metals | Pb | Asbestos-PLM | GRO Suite | DRO Suite | | | | WO Suite | | | |
| 1. 16/16-08212012 | | 7:00 | A | T/L | | X | ✓ | | | | | | | | | | | | | | | | | | | | |
| 2. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. 06/16-08212012 | | 7:15 | A | T/L | | X | X | | | | | | | | | | | | | | | | | | | | |
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| 12. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 17. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) [Signature] DATE/TIME 8/22/12 8:15 am
 RECEIVED BY (Signature) [Signature] DATE/TIME 8/22/12 8:15 am

RELINQUISHED BY (Signature) [Signature] DATE/TIME
 RECEIVED BY (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
 CHAIN OF CUSTODY SEALS Y/N/NA
 SEALS INTACT? Y/N/NA
 RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

APPENDIX B

Field Data Sheets

46

City: Birmingham, AL
Min. Op. Temp: 62°F

[illegible]

Vapor Extraction System Maintenance Service Record

[illegible]

Notes:

360-627-8213 - State Member

Line 1 = 1560 fpm @ 12"

Top

$$I_{\text{alt}} \text{ Lin} = 3720 \text{ f/m}$$

Line 2 = 1612 fpm @ 10'

Line 3 = 1580 FPM @ 11"

R/Ltn 22% OPEN

Line 4 = 1545 fpm T 10'

Butter

Vapor Extraction Individual Well Data Sheet

Station No.: SLH 352

2/28/12

City: Bremerton, WA

| Vapor System | | Lim 1 | | | Lim 2 | | | Lim 3 | | | | |
|--------------|--------------|---------------------|--------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|
| | Pre-Dilution | Vac | Flow | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status |
| Date | (ppmv) | (H ₂ O") | (scfm) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) |
| 2/28/12 | 600 | 18 | 82 | 230 | 12 | 100% | 400 | 10" | 100% | 230 | 11" | 100% |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Lim 4 | | Vac | Well Status | Vac | Well Status | Vac | Well Status | Vac | Well Status |
|---------|--------|---------------------|-------------|--------|---------------------|------------|-------------|---------------------|-------------|
| Date | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) |
| 2/28/12 | 278 | 10" | 100% | | | | | | |
| | | | | | | | | | |
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|------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|
| | | | | | | | | | | | | |
| | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status |
| Date | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) |
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| | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status |
|------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|
| Date | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) |
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| | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status | | Vac | Well Status |
|------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|--------|---------------------|-------------|
| Date | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) | (ppmv) | (H ₂ O") | (on / off) |
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Vapor Extraction System Data Sheet

Station No: PCF# 352
 Max Flow Rate (scfm): 2500

Voc Out: 5

City: Barnstable
 Min. Op. Temp: 60°F

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|---------|----------------------------|----------------------------|--|------------------------|------------------------|------------------------------------|--------------------------------------|--|--|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| 3/14/12 | 4 | 7578 | 60 | 177 | | | | | | | | 800 | 5 | | 620 | 620 | 740 |
| #1 | | | | 60 | | 1220 | | | 29 | | | | | | | | |
| #2 | | | 80 | 60 | | 280 | | | 30 | | | | | | | | |
| #3 | | | 28 | 60 | | 350 | | | 25 | | | | | | | | |
| #4 | | | 28 | 60 | | 227 | | | 27 | | | | | | | | |
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Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Belts | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
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Notes:

$T-Velocity = 9750 \text{ ft/min}$
 #1 = 2200 #4 = 2940
 #2 = 1550
 #3 = 2180
 #4 = 1980

Velocity Balancing

Vapor Extraction System Data Sheet

Station No: PCF# 752
 Max Flow Rate (scfm): 250 cfm

Voc Out: 4

City: Bremerton
 Min. Op. Temp: 600

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|---------|----------------------------|----------------------------|--|------------------------|------------------------|------------------------------------|--------------------------------------|--|--|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| 3/30/12 | 4 | 61141 | 68 | 188 | 188 | | | | | | | 450 | 4 | | 625 | 600 | 700 |
| H 1 | | | 55 | | | 1007 | | | 28 | | | | | | | | |
| H 2 | | | | 45 | | 125 | | | 29 | | | | | | | | |
| H 3 | | | | 60 | | 270 | | | 30 | | | | | | | | |
| H 4 | | | | 58 | | 200 | | | 20 | | | | | | | | |
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Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Bells | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
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Notes:

Velocity = Total Inlet = 9875 fpm

H1 = 2227

H2 = 1845

H3 = 2000

H4 = 1900

Vapor Extraction System Data Sheet

Station No: PCF#352
 Max Flow Rate (scfm): 250 scfm

Voc Out: 8

City: Brampton
 Min. Op. Temp: 600

| Max Flow Rate (scfm) | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------------------|----------------------------------|--|------------------------------|------------------------------|--|--|--|--|-----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------------|-----|
| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) | |
| 4/10/2 | 4 | 61410 | 58 | 190 | 190 | | 492 | | | | | | | | | 640 | 692 | 690 |
| #1 | | | | | | | 1262 | | 31 | | | | | | | | | |
| #2 | | | | | | | 298 | | 30 | | | | | | | | | |
| #3 | | | | | | | 272 | | 22 | | | | | | | | | |
| #4 | | | | | | | 325 | | 31 | | | | | | | | | |
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Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Bells | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|---------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
| 4/10/12 | | 14.5 | | | OK | OK | | - | - | - | - | OK | - | - | |
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Notes:

Velocity = Total Inlet = 9800 fpm

#1 = 2200

#2 = 1500

#3 = 2010

#4 = 1875

Vapor Extraction System Data Sheet

 Station No: PCF#352

 Max Flow Rate (scfm): 250 CFM

 Voc Out: 11.6

 City: BREMERTON, WA

 Min. Op. Temp: 600 F

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|------------|----------------------------|----------------------------|--|------------------------|------------------------|------------------------------------|--------------------------------------|--|--|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| 05/15/2012 | 4 | 622448 | 45 | 170 | 45 | 1199 | | | | | | | | | 650 | 650 | 699 |
| #1 | | | 32.5 | 45 | | 296 | | | | | | | | | | | |
| #2 | | | 26 | 40 | | 767 | | | | | | | | | | | |
| #3 | | | 26 | 40 | | 638 | | | | | | | | | | | |
| #4 | | | 28.6 | 45 | | 1125 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 05/30/2012 | 4 | 622808 | 48 | 176 | | 1009 | | | | | | | | | 650 | 650 | 677 |
| #1 | | | 36 | 45 | | 250 | | | | | | | | | | | |
| #2 | | | 26 | 45 | | 600 | | | | | | | | | | | |
| #3 | | | 26 | 45 | | 555 | | | | | | | | | | | |
| #4 | | | 30 | 44 | | 980 | | | | | | | | | | | |
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Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filler | Changed Dilution Filler | Test Safety Interlock System | Replaced V-Belts | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut-Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
| 05/15/2012 | | 14.6 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| 05/30/2012 | | 14.2 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

 Notes: ON MAY 15, 2012 AIR SAMPLES WERE COLLECTED FROM INLET/OUTLET PORTS TAKEN TO ESN LABORATORIES OLYMPIA, WA
ON MAY 30, 2012 THE SYSTEM WAS OPERATING AT TEMPERATURE CONCENTRATIONS LOWER, WATER IN KNOCKOUT TANK

Vapor Extraction System Data Sheet

 Station No: PCF#352

 Max Flow Rate (scfm): 250 CFM

 Voc Out: 11.6

 City: BREMERTON, WA

 Min. Op. Temp: 600 F

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|------------|----------------------------------|----------------------------------|--|------------------------------|------------------------------|--|--|--|--|-----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------------|
| 06/19/2012 | 4 | 63087/8 | 45 | 160 | | 660 | | | | | | 3 | | | 600 | 600 | 602 |
| #1 | 100% | | 34 | 45 | 40 | 692 | 400 | | | | | | | | | | |
| #2 | 100% | | 35 | 40 | 38 | 780 | 560 | | | | | | | | | | |
| #3 | 50% | | 34 | 40 | 40 | 800 | 630 | | | | | | | | | | |
| #4 | closed | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 06/30/2012 | 4 | 63351/2 | 59 | 176 | | 700 | | | | | | 5 | | | 650 | 650 | 687 |
| #1 | 100% | | 54 | 45 | | 680 | | | | | | | | | | | |
| #2 | 50% | | 30 | 45 | | 230 | | | | | | | | | | | |
| #3 | closed | | 0 | 0 | | | | | | | | | | | | | |
| #4 | closed | | 0 | 0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Belts | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change- Out | Automatic System Shut- Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------------|------------------------------|--------------------|------------------------------|-------------------------------|------------------------------------|---------------------|--------------------------|------------------------------------|------------------------------------|---------------------------------------|--------------------------|--|-----------------------------|-----------------------------|----------|
| 06/19/2012 | | 14.5 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| 06/30/2012 | | 14.3 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Notes: ON JUNE 19, 2012 AIR SAMPLES WERE COLLECTED FROM INLET/OUTLET PORTS TAKEN TO ESN LABORATORIES OLYMPIA, WA

ON JUNE 30, 2012 THE SYSTEM WAS OPERATING AT TEMPERATURE CONCENTRATIONS WERE LOWER AND CLOSED #3 & #4 TO

TRY AND GET HIGHER CONCENTRATIONS. RAISED THE COMBUSTION CHAMBER TEMPERATURE TO 650f.

Vapor Extraction System Data Sheet

 Station No: PCF#352

 Max Flow Rate (scfm): 250 CFM

 Voc Out: 8.4

 City: BREMERTON, WA

 Min. Op. Temp: 600 F

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|------------|----------------------------|----------------------------|--|------------------------|------------------------|------------------------------------|--------------------------------------|--|--|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| 07/17/2012 | 4 | 63668/8 | 55 | 140 | | 948 | 300 | | | | | 8.4 | | | 650 | 680 | 700 |
| #1 | 100% | | 42 | 80 | 40 | 220 | | | | | | | | | | | |
| #2 | 100% | | 40 | 80 | 38 | 200 | | | | | | | | | | | |
| #3 | 50% | | 34 | 60 | 40 | 85 | | | | | | | | | | | |
| #4 | closed | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 07/31/2012 | 4 | 63668/8 | 59 | 176 | | 400 | 200 | | | | | 9 | | | 650 | 650 | 687 |
| #1 | 100% | | 54 | 67 | | 280 | 180 | | | | | | | | | | |
| #2 | 100% | | 55 | 59 | | 230 | 100 | | | | | | | | | | |
| #3 | closed | | 0 | 0 | | | | | | | | | | | | | |
| #4 | closed | | 0 | 0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Belts | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut-Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
| 07/17/2012 | 13991 | 14.5 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| 07/31/2012 | | 12.6 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Notes:

SYSTEM OFF AT ARRIVAL ON JULY 17, 2012 LIKELY A STORM EVENT AND POWER OUTAGE IN THE AREA 07/15/12.

ON JULY 17, 2012 AIR SAMPLES WERE COLLECTED FROM INLET/OUTLET PORTS TAKEN TO ESN LABORATORIES OLYMPIA, WA

ON JUNE 30, 2012 THE SYSTEM WAS OPERATING AT TEMPERATURE CONCENTRATIONS WERE LOWER AND CLOSED #3 & #4 TO

TRY AND GET HIGHER CONCENTRATIONS. RAISED THE COMBUSTION CHAMBER TEMPERATURE TO 650f.

Vapor Extraction System Data Sheet

 Station No: PCF#352

 Max Flow Rate (scfm): 250 CFM

 Voc Out: 10

 City: BREMERTON, WA

 Min. Op. Temp: 630 F

| Date | # of Wells (Zones) On-Line | Cumulative Operating Hours | Influent Vacuum (In. H ₂ O) | System Flowrate (acfm) | Total Well Flow (acfm) | Average Well Influent Conc. ppm(v) | Average System Influent Conc. ppm(v) | System Influent O ₂ Conc. % | Flow Pres / Vac (In. H ₂ O) | Flow Temp. (°F) | Adsorber Inlet Temp. (°F) | Effluent (A) Conc. ppm(V) | Effluent (B) Conc. ppm(V) | Effluent (C) Conc. ppm(V) | System Combustion Temp (°F) | Temp. Below Cat. Bed (°F) | Temp. Above Cat. Bed (°F) |
|------------|----------------------------|----------------------------|--|------------------------|------------------------|------------------------------------|--------------------------------------|--|--|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|
| 08/15/2012 | 4 | 63740/4 | 65 | 90 | | 1200 | | | | | | | | | 650 | 650 | 699 |
| #1 | | | 52.5 | 40 | | 306 | | | | | | | | | | | |
| #2 | | | 50 | 40 | | 445 | | | | | | | | | | | |
| #3 | | | 50 | 40 | | 500 | | | | | | | | | | | |
| #4 | | | OFF | OFF | | OFF | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 08/20/2012 | 4 | 63812/2 | 48 | 176 | | 1678 | | | | | | | | | 650 | 650 | 677 |
| #1 | | | 36 | 45 | | 2065 | | | | | | | | | | | |
| #2 | | | 34 | 45 | | 802 | | | | | | | | | | | |
| #3 | | | 35 | 45 | | 462 | | | | | | | | | | | |
| #4 | | | OFF | OFF | | OFF | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Vapor Extraction System Maintenance Service Record

| Date | Electric Meter Reading | Blower Amperage | Changed Process Filter | Changed Dilution Filter | Test Safety Interlock System | Replaced V-Belts | Changed Blower Oil | Replaced UV Scanner or Flame | Replaced Chart Pens or Paper | Inspect Fire Suppression Device | Carbon Change-Out | Automatic System Shut Down Test | Calibrate VOC Monitor | Holding Tank Serviced | Comments |
|------------|------------------------|-----------------|------------------------|-------------------------|------------------------------|------------------|--------------------|------------------------------|------------------------------|---------------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------|
| 08/15/2012 | | 15.6 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| 08/20/2012 | 14460 | 14.8 | OK | OK | OK | NA | NA | NA | NA | OK | NA | OK | NA | NA | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Notes: ON AUGUST 20, 2012 AIR SAMPLES WERE COLLECTED FROM INLET/OUTLET PORTS TAKEN TO ESN LABORATORIES OLYMPIA, WA

THE SYSTEM SHUTS DOWN DUE TO LOW PRESSURE THE AIRFLOW IS REDUCING OVER TIME LIKELY PLUGGED CAT-CELL.

SET THE BURNER TEMPERATURE TO 630 F TO TRY AND INCREASE THE REMOVAL EFFECIENCY.