Review Type: NEW | DEQ Office: NWR | First | Last | Next | Back | 5 of 6 Records

OLPRR Review

Incident Comments | Contractor Maintenance

[redacted] RR# 10448 **Incident Data**

Reported By: KEVIN MCCARTHY
RepBy Phone: (503) 639-8098 X108
Company: DELTA ENVIRONMENTAL CONSUL

Lookup LUST

Log Number: 03-07-1448 | Site Type: Regulated
Site Name: Shell 121704 | Received Date: 9/14/2007
Site Address: 14951 Bangy Road
Other:
City: Lake Oswego | Zip Code: 97035

County: Clackamas
Facility Id: 838 | Lookup UST
Phone:

Responsible Party

First Name: Jeff
Last Name: Goold
Organization: Shell Oil Products US
Address: PO BOX 4369
Address2:
City: Houston
State: TX | Zip Code: 77210
Phone: 425-844-2355
E-Mail:

Mail Contacts

First Name: Jeff
Last Name: Goold
Organization: Shell Oil Products US
Address: PO BOX 4369
Address2:
City: Houston
State: TX | Zip Code: 77210
Phone: 425-844-2355
E-Mail:

Invoice Contact

First Name: Jeff
Last Name: Goold
Organization: Shell Oil Products US
Address: PO BOX 4369
Address2:
City: Houston
State: TX | Zip Code: 77210
Phone: 425-844-2355
E-Mail:

Site Assessment

Discover Date: 9/14/2007 | Discovery: SiteAssessment | Cause: Unknown | Source: Other | Confirmation: Lab:RP

Contaminants

- [ ] Heating Oil
- [ ] Waste Oil
- [ ] Other Pet. Dist.
- [ ] Leaded Gasoline
- [x] Unleaded Gasoline
- [ ] Chemical
- [ ] Misc. Gasoline
- [ ] Lubricant
- [ ] MTBE
- [x] Diesel (Motor Fuel)
- [ ] Solvent
- [ ] Unknown

Impacted Media

- [x] Groundwater
- [ ] Surface Water
- [ ] Drinking Water
- [ ] Free Product
- [ ] Vapor
- [x] Soil

Accept | Hold | Decline | Close

CRA 6/12/08 ck
Fin Inv. Req. 11/13/09 ck

RP # 104789
Invoice # 104853
Contact #77

Addresses changed

Q Time # 40074

DEQ
State of Oregon
Department of
Environmental
Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Cost Recovery Agreement

This document serves as an agreement between the undersigned (hereinafter "you") and the Department of Environmental Quality (DEQ) regarding DEQ review and oversight of the investigation and/or cleanup of petroleum (hazardous substances) at the property located at:

Facility Name:	Shell Station, SAP 121704
Address:	14951 SW BANGY LANE
	LAKE OSWEGO, OR 97035-0000
USTC No.:	03-07-1448

DEQ agrees to review environmental documents submitted by you or on your behalf regarding the investigation and/or cleanup of the above-referenced site. Additional details regarding DEQ oversight will be established upon review of the initial site data.

DEQ requires that persons requesting DEQ review and oversight of investigation and cleanup activities agree to the terms of this cost recovery agreement and pay project oversight costs.

DEQ project oversight costs will include direct costs and indirect costs. Direct costs include site-specific expenses and legal costs. Indirect costs are those general management and support costs of the DEQ, including the Land Quality Division (LQ), allocable to DEQ oversight of this agreement and not charged as direct, site-specific costs. Indirect charges are based on a percentage of direct personal services costs. Review and oversight costs shall not include any unreasonable costs or costs not otherwise recoverable by DEQ under ORS 465.255.

DEQ costs are due within thirty (30) days of issuance of the monthly statement, by a check made payable to the "Department of Environmental Quality". Nine percent interest shall be charged on past due accounts.

Electing not to enter into this agreement does not release you from any responsibility that you might have for any reporting requirements, investigation and/or cleanup of petroleum (hazardous substances) at the above referenced facility. This does not preclude the DEQ from conducting audits or inspections of all or portions of the investigation and cleanup activities associated with this facility. Enforcement action may be initiated if any violation of Oregon Administrative Rules (OARs) or Oregon Revised Statutes (ORSs) is found.

Either DEQ or you may terminate this agreement by giving 15 days advance written notice to the other. Only those costs incurred or obligated by DEQ prior to the effective date of any termination of the agreement shall be recoverable under this agreement. Termination of this agreement will not affect any other right DEQ may have for recovery of costs under any applicable law.

You will hold DEQ harmless for any claims (including but not limited to claims of property damage or personal injury) arising from DEQ review and/or oversight activities under this agreement.

This agreement is not and shall not be construed to be an admission by you of any liability under ORS 465.255 or any other law or as a waiver by you of any defense to such liability. This agreement is not and shall not be construed to be a waiver, release, or settlement of claims that DEQ may have against you or any other responsible person nor is this agreement a waiver of any enforcement authority that DEQ may have.

The DEQ Tanks Program will be responsible for the review and oversight of the investigation and cleanup activities associated with the property. Please refer all site-specific inquiries to the UST Regional Offices in Northwest Region – Portland, Western Region – Salem and Eugene and Eastern Region – The Dalles. For locations and phone numbers of the regional offices, please see the UST Regional Office list at http://www.deq.state.or.us/about/locations.htm

All inquiries regarding cost recovery and/or invoices should be directed to Dawn Ismerio at 503-229-5812.

If the terms of this agreement are acceptable, please have it executed by an authorized officer in the space provided below. In order to more effectively schedule your project, please return this agreement within 30 days of receipt to the regional office responsible for your site.

Accepted and agreed to this 10 day of June, 2008

By: Jeff Goold

Title: Prj Mgr

Please provide the following information as to where the invoices should be sent.

Individual Name: Jeff Goold

Title: Environmental Engineer

Company Name: Shell Oil Products U.S.

Mail Address: P.O. Box 4912

City, State, Zip: Houston, Texas 77210-4912

Phone Number: 425-844-2355

FILE NAME: Shell station # 121704 LOG NO. 03-07-1448

NWR'S NFA TRACKING CHECKLIST

ROUTE TO	ACTIVITY	RESPONSIBLE PERSON	DATE COMPLETED
	UST database checked by Project Manager (PM) to make sure fees paid and tanks closed and verify w/ Greg UST compliance issues have been resolved	BNP	12/18/08
	OTIS updated with soil disposal, public notice, site status in comments not file status field and other applicable information by PM	BNP	12/18/08
	Draft NFA prepared by PM and submitted to NRS-4 Hydro or Manager for review	BNP	12/18/08
	Draft NFA approved by NRS-4 Hydro (or Manager, if necessary) and submitted for data entry	MHC	12/23/08
	To Administrative staff for proofreading letter and verify staff completed cost recovery entry	LK	1/29/09
	SEQUENT and green sheet updated with final invoice request date	LK	1/13/09
	OPTIONAL STEP: Expedited payment request by responsible party (RP) is handled by =======>>		
	OPTIONAL STEP: Estimated Expedited Payment Amount given to RP by =======>>		
	Final invoice paid notice received from Business Office; PM informed by Julie; Julie verify SITE TYPE/STATUS is updated and correct, PM end date		
	Final NFA drafted and signed by PM (and Manager, if necessary) and send for data entry		
	SEQUENT updated with filed closed information and file closure activities complete	LK	2/26/09
	Copies made (including copy of NFA, EES, enclosures, attachments, if applicable, and release form for NFA binders) and mailed	Scanned up LK	3/3/09

NFA PROCESS COMPLETE

(6/14/06)

June 22, 2009

Mr. Jeff Goold
Shell Oil Products US
20945 Wilmington Avenue
Carson, CA 90810

Re: Monitoring Well Abandonment
Shell-Branded Service Station
(SAP No. 121704)
14951 SW Bangy Lane,Lake Oswego, Oregon
Delta Project No. SOR20-9AA-1
DEQ Lust No. ~~03-92-0115~~ 03-07-1448

DELTA

Dear Mr. Goold:

Delta Consultants (Delta) is pleased to present this letter report documenting the abandonment of three monitoring wells (MW-3, MW-4, and MW-5), one air-sparge well (AS-1), and three remediation points (RW-1, RW-2, and RW-3) at the Shell-branded station at 14951 SW Bangy Lane in Lake Oswego, Oregon (Site).

May 19 and 20, 2009, Delta subcontracted Cascade Drilling, Inc. (Cascade) of Portland, Oregon, to abandon all monitoring wells at the Site. Cascade is an Oregon Licensed Well Constructor in accordance with OAR 690-240-0135.

Cascade, on behalf of Delta, obtained a variance from the Oregon Water Resources Department (WRD) to decommission monitoring wells MW-2, MW-4 and MW-5 in place. Wells RW-1, RW-2, and RW-3 were identified as shallow remediation points for which no documentation was available. Solid casing extended to approximately 3 feet below ground surface (bgs). The air sparge well and remediation points were also decommissioned in place. All wells and remediation points were abandoned by filling with hydrated bentonite chips to an approximate depth of one foot bgs. To restore original surface conditions, RW-2, RW-3, MW-5, and AS-1 were completed with concrete patches and RW-1, MW-3, and MW-4 were completed with cold asphalt patches.

No waste was generated during abandonment activities.

a member of: Inogen Environmental Alliance

4640 SW Macadam Avenue Suite 110 Portland, Oregon 97239 USA
Phone +1 503.639.8098 / USA Toll Free 800.477.7411
Fax +1 503.639.7619 www.deltaenv.com

Delta appreciates the opportunity to provide environmental services to Shell Oil Products. Please contact any of the undersigned if you have any questions regarding the content of this report.

Sincerely,
Delta Consultants

kmcquinn

Katy McQuinn
(kmcquinn@deltaenv.com)
Project Scientist

for

Jessica Eckart
(jeckart@deltaenv.com)
Project Manager

Kevin McCarthy
(kmccarthy@deltaenv.com)
Portfolio Manager

Attachments: Attachment A – Oregon WRD Well Abandonment Cards and Monitoring Well Reports

ATTACHMENT A

OREGON WRD WELL ABANDONMENT CARDS AND MONITORING WELL REPORTS

CLAC 65990

06-11-2009

STATE OF OREGON
MONITORING WELL REPORT
(as required by ORS 537.765 & OR 690-240-0395)

WELL LABEL # L

START CARD # 1006647

(1) LAND OWNER

Owner Well I.D. MW-3

First Name _____ Last Name P09157-3316

Company TEXACO REFINING AND MARKETING

Address 550 KIRKLAND WAY

City KIRKLAND State WA Zip 98033

(2) TYPE OF WORK

☐ New ☐ Deepening ☐ Conversion
☐ Alteration (repair/recondition) ☒ Abandonment

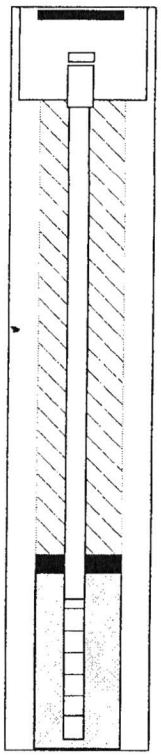
(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Hollow Stem Auger ☐ Cable Mud
☐ Reverse Rotary ☒ Other Chip in place

(4) CONSTRUCTION

Piezometer Well ☐

Depth of Completed Well 25 ft. Special Standard ☒



MONUMENT/VAULT Below Ground
From _____ To _____

BORE HOLE
Diameter 4 From 0 To 25

CASING
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

LINER
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

SEAL
From 0 To 25
Material Bentonite Chips
Amount 3.00 S Grout weight _____

SCREEN
Casing/Liner _____ Material _____
Diameter _____ From _____ To _____
Slot Size _____

FILTER
From _____ To _____ Material _____ Size of pack _____

(5) WELL TESTS

◯ Pump ◯ Bailer ◯ Air ◯ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Temperature _____ °F Lab analysis ☐ Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County Clackamas Twp 2.00 S N/S Range 1.00 E E/W WM
Sec 7 NW 1/4 of the NW 1/4 Tax Lot 1100
Tax Map Number _____ Lot _____
Lat ° ' " or _____ DMS or DD
Long ° ' " or _____ DMS or DD
◉ Street address of well ◯ Nearest address

14905 SW BANGY RD
LAKE OSWEGO OR

(7) STATIC WATER LEVEL

	Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening			
Completed Well			

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found _____

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Ground Elevation _____

Material	From	To

Date Started 05-19-2009 Completed 05-19-2009

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number 10595 Date 06-11-2009
Electronically Submitted
Signed SAM HEUSER (E-filed)

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 10357 Date 06-11-2009
Electronically Submitted
Signed TERRENCE JACQUES (E-filed)
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.32

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

SCREENS

Perf/Screen	Casing/Liner	Screen Dia	From	To	Scrn size/slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(8) WELL LOG

Material	From	To

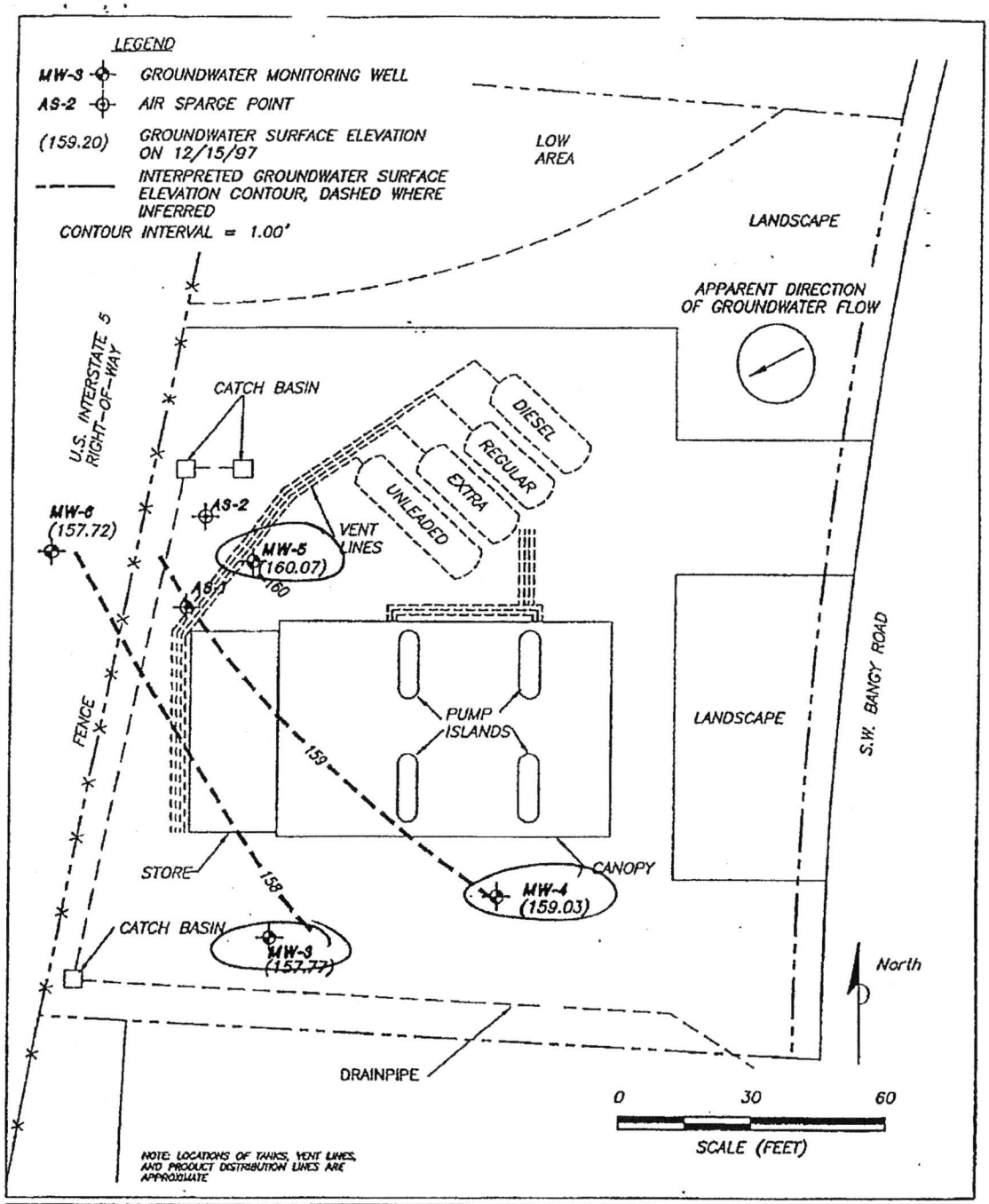
Comments/Remarks

4" well abandoned by chipping in place to depth with 3 bags of bentonite chips from 0ft to 25ft

Monument removed

Original Start Card: 52340
Well ID: Unknown

Map of well


LEGEND
MW-3 GROUNDWATER MONITORING WELL
AS-2 AIR SPARGE POINT
(159.20) GROUNDWATER SURFACE ELEVATION ON 12/15/97
INTERPRETED GROUNDWATER SURFACE ELEVATION CONTOUR, DASHED WHERE INFERRED
CONTOUR INTERVAL = 1.00'
LOW AREA
LANDSCAPE
APPARENT DIRECTION OF GROUNDWATER FLOW
U.S. INTERSTATE 5 RIGHT-OF-WAY
CATCH BASIN
DIESEL
REGULAR
EXTRA
UNLEADED
VENT LINES
MW-6 (157.72)
AS-2
MW-5 (160.07)
AS-1
160
PUMP ISLANDS
LANDSCAPE
S.W. BANGY ROAD
FENCE
159
STORE
CANOPY
MW-4 (159.03)
CATCH BASIN
MW-3 (157.77)
North
DRAINPIPE
0 30 60
SCALE (FEET)
NOTE: LOCATIONS OF TANKS, VENT LINES, AND PRODUCT DISTRIBUTION LINES ARE APPROXIMATE
SECOR International Incorporated
GROUNDWATER ELEVATION CONTOUR MAP
DECEMBER 16, 1997
EXXON SERVICE STATION #7-6152
14951 SW BANGY ROAD
LAKE OSWEGO, OREGON
FIGURE: 1
JOB#:00091-337-01 APPR: DWN: DJM DATE: 1/8/98
DWG: EX33713A

Map of well

Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

April 29, 2009

TERRENCE JACQUES #10357
CASCADE DRILLING INC
13600 SE AMBLER RD
CLACKAMAS OR 97015

FINAL ORDER

Dear Terry:

The Special Standard request you submitted for owner: Texaco Refining and Marketing, Start Card numbers 1006647 (MW3), 1006648 (MW4) and 1006649 (MW5), is hereby approved for the following: You may abandon these wells in place per OAR 690-240-0510(2). *Bentonite grout may only be used to abandon the portion of the wells that is below the static water level.* Above the static water level another approved sealing material must be used. Your Special Standard request form is enclosed. All other standards must be adhered to.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter, I may be contacted at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

cc: Lorraine Ramsey, NW Region Well Inspector
File

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

P09157-3314

CLAC 65991

06-11-2009

STATE OF OREGON
MONITORING WELL REPORT
(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L

START CARD # 1006648

(1) LAND OWNER

Owner Well I.D. MW-4

First Name _____ Last Name P09157-3316

Company TEXACO REFINING AND MARKETING

Address 550 KIRKLAND WAY

City KIRKLAND State WA Zip 98033

(2) TYPE OF WORK

☐ New ☐ Deepening ☐ Conversion
☐ Alteration (repair/recondition) ☒ Abandonment

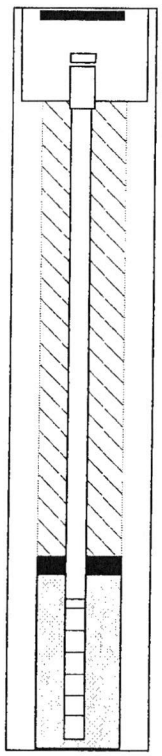
(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Hollow Stem Auger ☐ Cable Mud
☐ Reverse Rotary ☒ Other Chip in place

(4) CONSTRUCTION

Piezometer Well ☐

Depth of Completed Well 33 ft. Special Standard ☒



MONUMENT/VAULT Below Ground
From _____ To _____

BORE HOLE
Diameter 4 From 0 To 33

CASING
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

LINER
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

SEAL
From 0 To 33
Material Bentonite Chips
Amount 4.00 S Grout weight _____

SCREEN
Casing/Liner _____ Material _____
Diameter _____ From _____ To _____
Slot Size _____

FILTER
From _____ To _____ Material _____ Size of pack _____

(5) WELL TESTS

◯ Pump ◯ Bailer ◯ Air ◯ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Temperature _____ °F Lab analysis ☐ Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County Clackamas Twp 2.00 S N/S Range 1.00 E E/W WM
Sec 7 NW 1/4 of the NW 1/4 Tax Lot 1100
Tax Map Number _____ Lot _____
Lat ° ' " or _____ DMS or DD
Long ° ' " or _____ DMS or DD
◉ Street address of well ◯ Nearest address
14905 SW BANGY RD
LAKE OSWEGO OR

(7) STATIC WATER LEVEL

	Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening			
Completed Well			

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found _____

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Ground Elevation _____

Material	From	To

Date Started 05-19-2009 Completed 05-19-2009

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number 10595 Date 06-11-2009
Electronically Submitted
Signed SAM HEUSER (E-filed)

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

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Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT
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MONITORING WELL REPORT - continuation page

CLAC 65991

06-11-2009

WELL I.D. # L ____________

START CARD # 1006648

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐
○	○		☐				○	○	☐	☐

SCREENS

Perf/Screen	Casing/ Liner	Screen Dia	From	To	Scrn size/slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	

(8) WELL LOG

Material	From	To

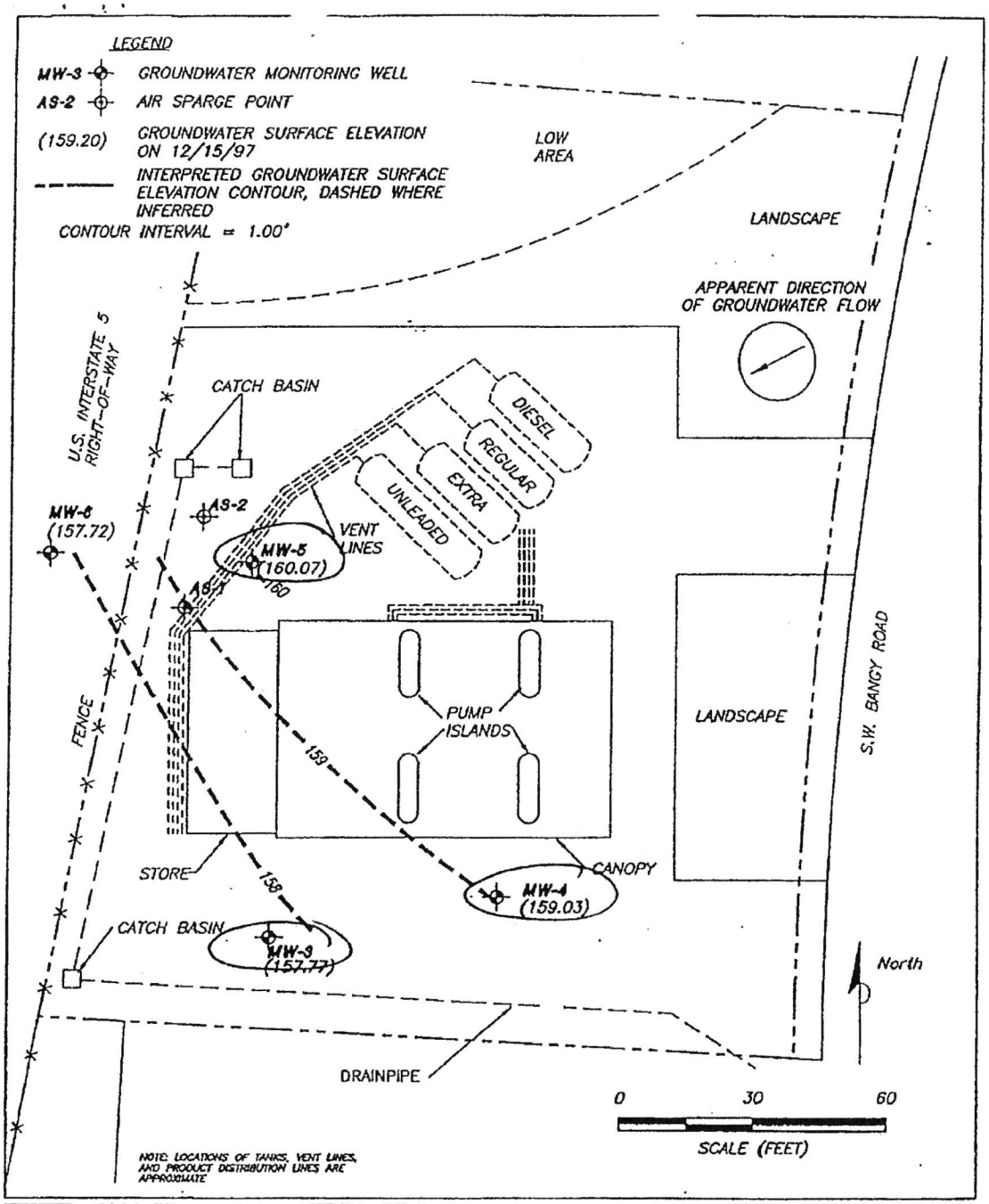
Comments/Remarks

4" well abandoned by chipping in place to depth with 4 bags of bentonite chips from 0ft to 33ft

Monument removed

Original Start Card: 52341
Well ID: Unknown

Map of well



SECOR International Incorporated	GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 15, 1997 EXXON SERVICE STATION #7-6152 14951 SW BANGY ROAD LAKE OSWEGO, OREGON	FIGURE: 1
	JOB#: 00091-337-01 APPR: DWN: DJM DATE: 1/8/98	

DWG: EX33713A

Map of well

Oregon
Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

April 29, 2009

TERRENCE JACQUES #10357
CASCADE DRILLING INC
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If you have any questions regarding this letter, I may be contacted at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

cc: Lorraine Ramsey, NW Region Well Inspector
File

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

P09157-3316

CLAC 65992

06-11-2009

STATE OF OREGON
MONITORING WELL REPORT
(as required by ORS 537.765 & OAR 690-240-0395)

WELL LABEL # L

START CARD # 1006649

(1) LAND OWNER

Owner Well I.D. MW-5

First Name _____ Last Name P09157-3316

Company TEXACO REFINING AND MARKETING

Address 550 KIRKLAND WAY

City KIRKLAND State WA Zip 98033

(2) TYPE OF WORK

☐ New ☐ Deepening ☐ Conversion
☐ Alteration (repair/recondition) ☒ Abandonment

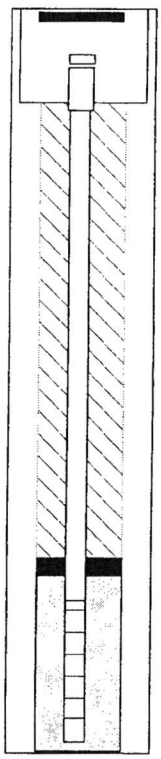
(3) DRILL METHOD

☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Hollow Stem Auger ☐ Cable Mud
☐ Reverse Rotary ☒ Other Chip in place

(4) CONSTRUCTION

Piezometer Well ☐

Depth of Completed Well 25 ft. Special Standard ☒



MONUMENT/VAULT Below Ground
From _____ To _____

BORE HOLE
Diameter 4 From 0 To 25

CASING
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

LINER
Dia. _____ From ☐ _____ To _____
Gauge _____ Wld Thrd
Material ◯Steel ◯Plastic ☐ ☐

SEAL
From 0 To 25
Material Bentonite Chips
Amount 3.00 S Grout weight _____

SCREEN
Casing/Liner _____ Material _____
Diameter _____ From _____ To _____
Slot Size _____

FILTER
From _____ To _____ Material _____ Size of pack _____

(5) WELL TESTS

◯ Pump ◯ Bailer ◯ Air ◯ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Temperature _____ °F Lab analysis ☐ Yes By _____

Supervising Geologist/Engineer _____

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

(6) LOCATION OF WELL (legal description)

County Clackamas Twp 2.00 S N/S Range 1.00 E E/W WM
Sec 7 NW 1/4 of the NW 1/4 Tax Lot 1100
Tax Map Number _____ Lot _____
Lat ° ' " or _____ DMS or DD
Long ° ' " or _____ DMS or DD
◉ Street address of well ◯ Nearest address

14905 SW BANGY RD
LAKE OSWEGO OR

(7) STATIC WATER LEVEL

	Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening			
Completed Well			

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found _____

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)

(8) WELL LOG

Ground Elevation _____

Material	From	To

Date Started 05-20-2009 Completed 05-20-2009

(unbonded) Monitor Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon monitoring well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number 10595 Date 06-11-2009
Electronically Submitted
Signed SAM HEUSER (E-filed)

(bonded) Monitor Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon monitoring well construction standards. This report is true to the best of my knowledge and belief.

License Number 10357 Date 06-11-2009
Electronically Submitted
Signed TERRENCE JACQUES (E-filed)
Contact Info (optional)

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.32

MONITORING WELL REPORT - continuation page

CLAC 65992

06-11-2009

WELL I.D. # L ______

START CARD # 1006649

(4) CONSTRUCTION

BORE HOLE

Dia	From	To

FILTER PACK

From	To	Material	Size

SEAL

Material	From	To	Amt	sacks/ lbs	grout weight

CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

SCREENS

Perf/Screen	Casing/Liner	Screen Dia	From	To	Scrn size/slot width	Slot length	# of slots	Tele/ pipe size

(5) WELL TESTS

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units

(7) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(8) WELL LOG

Material	From	To

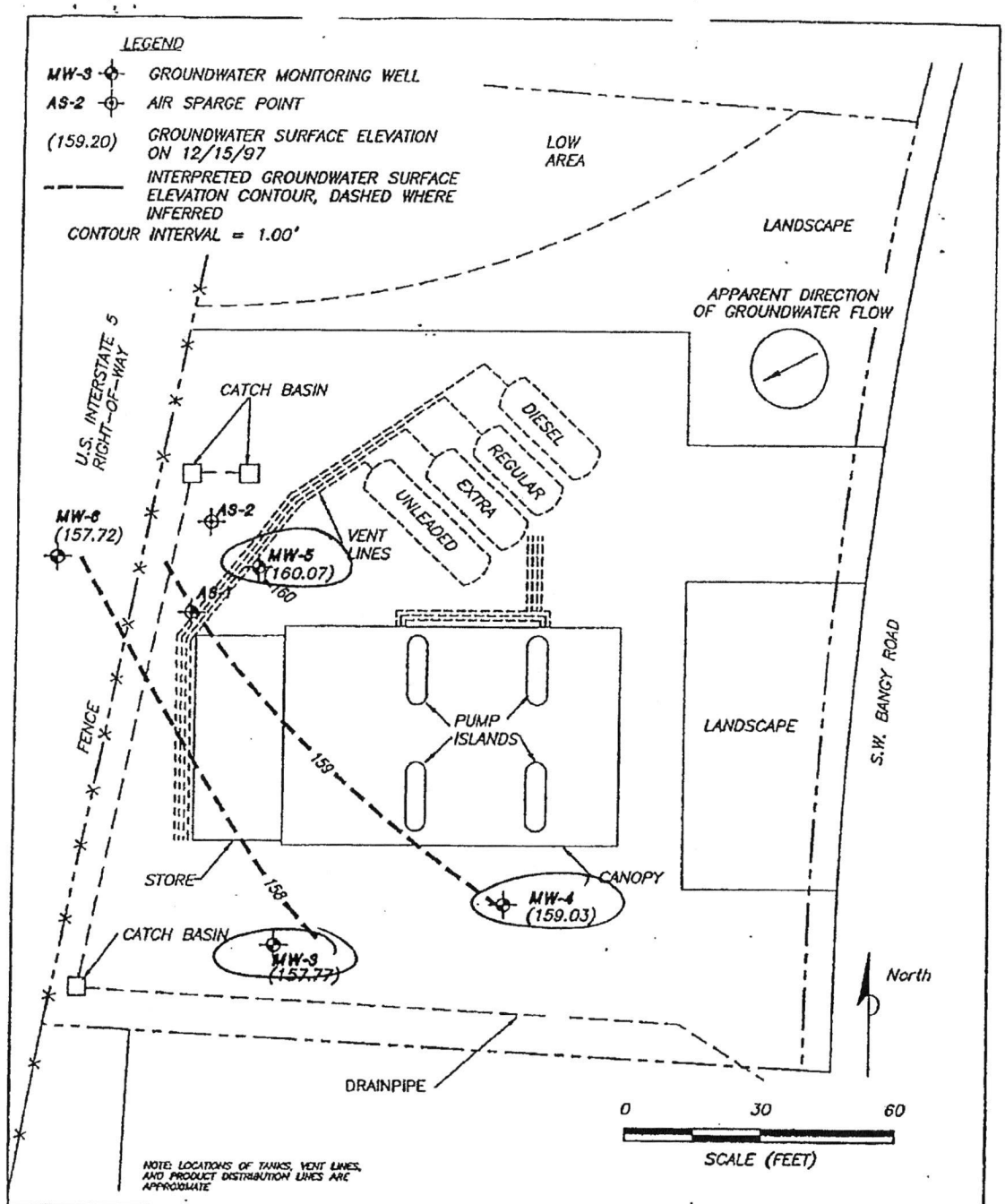
Comments/Remarks

4" well abandoned by chipping in place to depth with 3 bags of bentonite chips from 0ft to 25ft

Monument removed

Original Start Card: 52042
Well ID: Unknown

Map of well


LEGEND
MW-3 GROUNDWATER MONITORING WELL
AS-2 AIR SPARGE POINT
(159.20) GROUNDWATER SURFACE ELEVATION ON 12/15/97
INTERPRETED GROUNDWATER SURFACE ELEVATION CONTOUR, DASHED WHERE INFERRED
CONTOUR INTERVAL = 1.00'
LOW AREA
LANDSCAPE
APPARENT DIRECTION OF GROUNDWATER FLOW
U.S. INTERSTATE 5 RIGHT-OF-WAY
CATCH BASIN
DIESEL
REGULAR
EXTRA
UNLEADED
MW-6 (157.72)
AS-2
VENT LINES
MW-5 (160.07)
AS-1
160
PUMP ISLANDS
LANDSCAPE
S.W. BANGY ROAD
FENCE
159
STORE
158
CANOPY
MW-4 (159.03)
CATCH BASIN
MW-3 (157.77)
North
DRAINPIPE
0
30
60
SCALE (FEET)
NOTE: LOCATIONS OF TANKS, VENT LINES, AND PRODUCT DISTRIBUTION LINES ARE APPROXIMATE
SECOR
International Incorporated
GROUNDWATER ELEVATION CONTOUR MAP
DECEMBER 15, 1997
EXXON SERVICE STATION #7-6152
14951 SW BANGY ROAD
LAKE OSWEGO, OREGON
FIGURE: 1
JOB#:00091-337-01 APPR: DWN:DJM DATE: 1/8/98
DWG:EX337131

Map of well

Oregon

Theodore R. Kulongoski, Governor

Water Resources Department
North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

April 29, 2009

TERRENCE JACQUES #10357
CASCADE DRILLING INC
13600 SE AMBLER RD
CLACKAMAS OR 97015

FINAL ORDER

Dear Terry:

The Special Standard request you submitted for owner: Texaco Refining and Marketing, Start Card numbers 1006647 (MW3), 1006648 (MW4) and 1006649 (MW5), is hereby approved for the following: You may abandon these wells in place per OAR 690-240-0510(2). *Bentonite grout may only be used to abandon the portion of the wells that is below the static water level.* Above the static water level another approved sealing material must be used. Your Special Standard request form is enclosed. All other standards must be adhered to.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter, I may be contacted at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

cc: Lorraine Ramsey, NW Region Well Inspector
File

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

P09157-3316

Oregon
Theodore R. Kulongoski, Governor

Department of Environmental Quality
Northwest Region Portland Office
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5263
Fax: (503) 229-6945
TTY: (503) 229-5471

February 24, 2009

JEFF GOOLD
SHELL OIL PRODUCTS US
20945 S WILMINGTON AVENUE
CARSON CA 90810-1039

Re: No Further Action Letter
Shell Service Station SAP N0.121704
UST Cleanup File No. 03-07-1448
UST Facility No. 838

Dear Mr. Goold:

The Department of Environmental Quality (DEQ) has completed its review of the information submitted to date, regarding the Shell branded service station located at 14951 SW Bangy Road, in Clackamas County, Lake Oswego, Oregon. The DEQ has determined that the investigation appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-0205 through 340-122-0360 and that No Further Action (NFA) is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them:

SITE INFORMATION

The DEQ record indicates the property was previously listed under Exxon-Texaco Bangy Road, UST Cleanup File No. 03-88-0034. The release was discovered in 1988 when free product was discovered on the groundwater in the tank nest. Free product recovery was initiated by installing a skimmer in the monitoring wells, followed by a more effective remedial vapor extraction system. The system operated from 1989 to 1996. Oxygen release compound was added in two wells in 1996 to enhance natural degradation. In August 1996, final compliance groundwater monitoring was initiated. The site received a NFA determination in March 2000.

The site at present is an active retail gasoline station. Above ground structures include a station building and dispenser islands located east of the station building. The site is primarily covered with asphalt and concrete pavement. The USTs are located within a common excavation in the northern portion of the site. Local access to the site is from SW Bangy Lane to the east.

DUE DILLIGENCE SITE ASSESSMENT

In August 2007, Delta Consultants, Inc. conducted a Phase II Environmental Site Assessment on behalf of Shell Oil Products US (Shell) in conjunction with the property transaction. Four soil exploration borings were completed to a depth of 20 feet below ground surface (bgs) using a

direct-push hydraulic drive point. Attempts to complete more soil borings to the northeast side of the dispenser area and the northern portion of the tank pit were not successful because buried asphalt and concrete or utility was encountered. Soil samples were collected continuously at approximate 5-foot intervals. The soils encountered were logged and field screened using a PID and field observations including soil color and odor. In the absence of any field indicators, one soil sample from the sample interval directly above the soil/groundwater interface or at termination in each soil boring was collected. The soil samples selected for chemical analysis were properly preserved and submitted to the lab for analysis for petroleum hydrocarbons and related constituents.

Following borehole advancement, the probe rods were removed and a temporary well was lowered into the open annulus of the boring. The temporary well was constructed of 1-inch polyvinyl chloride piping with 5-feet of machine slotted screen. A groundwater sample was collected from the temporary well using polyethylene tubing and a peristaltic pump. The soil and groundwater samples were properly preserved and submitted for laboratory analysis for petroleum hydrocarbons and related constituents.

All soil and groundwater laboratory results were reviewed for detections of petroleum constituents above the laboratory reporting limits, and compared to the most stringent screening level risk-based concentrations (RBCs), including the recent revisions for ethylbenzene and naphthalene.

FINDINGS

None of the soil samples collected and submitted for laboratory analysis during the investigation contained concentrations of any constituent in excess of the most stringent screening level RBCs with one exception. One soil sample collected at a depth of 10 feet bgs in the southern portion of the property had a concentration of 28.5 milligrams per kilogram gasoline-range hydrocarbons in excess of the RBC for leaching to groundwater pathway under a residential use scenario.

Two groundwater samples collected from the western portion of the property contained concentrations of one or more constituents in excess of screening level RBCs. Benzene was detected at concentrations of 2.13 and 2.71micrograms per liter (µg/l); gasoline range hydrocarbons were detected at concentrations of 1,200 µg/l and 1,370 µg/l; and diesel range hydrocarbons were detected at concentrations of 249 µg/l and 398 µg/l. The concentrations of these and other petroleum-related constituents, such as ethylbenzene and naphthalene, exceeded the screening level RBCs for ingestion and inhalation pathway for drinking water under the residential and occupational exposure scenario. The concentrations of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene exceeded only the residential exposure pathway. The groundwater analysis data seem to be consistent with historical groundwater data from a pre-existing monitoring well in the same portion of the property.

CONCLUSIONS AND NFA DETERMINATION

The findings in the due diligence site assessment are consistent with the previous delineation of extent and magnitude of contamination. Together, they indicate that the site has been sufficiently investigated for the current and any likely future land use. One soil sample had a concentration of gasoline-range hydrocarbons in excess of the RBC for leaching to groundwater pathway under a residential use scenario. Two groundwater samples contained concentrations of one or more constituents in excess of screening level RBCs. Benzene, gasoline range hydrocarbons, diesel range hydrocarbons, and other constituents such as ethylbenzene and naphthalene, exceeded the screening level RBCs for ingestion and inhalation pathway for drinking water under the residential and occupational exposure scenario. The concentrations of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene in groundwater samples exceeded only the residential exposure pathway. The leaching, ingestion and inhalation pathways are not considered complete since there are no present or likely future users of groundwater. Detection of some petroleum hydrocarbons and related constituents in soil and groundwater seem to be residual in nature and do not constitute a new release. The shallow groundwater underlying the site should not be developed.

Additionally, it is our understanding that Shell has included as part of the divestment and sale contract a prohibition on the installation, extraction, or storage of potable water at the site and/or re-development of the site for residential purposes.

This DEQ determination will not apply if new or undisclosed facts show the cleanup does not comply with referenced rules. This determination also does not apply to any conditions at the site other than the release of the petroleum product.

Please note that pursuant to OAR 340-122-0360 (2), you must retain a copy of your report until ten (10) years after the first transfer of the property.

Your efforts to comply with the regulations to ensure that your property has been adequately cleaned up have been appreciated. If you have any questions, please feel free to contact me at (503) 229-5858.

Respectfully,

Bijan N. Pour
UST Cleanup Specialist
DEQ Northwest Region

Mike Kortenhof, Manager
UST Cleanup and Compliance Section

cc: Kevin McCarthy
Delta Consultants, Inc.
4640 SW Macadam Avenue Suite 110
Portland OR 97239

December 3, 2008

Mr. Bijan Pour
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Suite 400
Portland, OR 97201

Subject: Request for No Further Action
14951 SW Bangy Road
Lake Oswego, Oregon (SAP No. 121704)
Current DEQ LUST No. 03-07-1448
Historical DEQ LUST No. 03-88-0034

Dear Mr. Pour:

DELTA

On behalf of Shell Oil Products US (Shell), Delta Consultants (Delta) is submitting this letter requesting a No Further Action (NFA) status for the above-referenced property (site, Figure 1). In August 2007, Delta completed a Phase II Environmental Site Assessment (Phase II) in which soil and groundwater samples were collected and tested for petroleum hydrocarbons and related constituents. Petroleum hydrocarbon impacts were observed in soil and groundwater samples collected during the Phase II at concentrations exceeding the most stringent risk based concentrations (RBCs). As a result, Delta reported a release and the Oregon Department of Environmental Quality (DEQ) issued leaking underground storage tank (LUST) number 03-07-1448 to this site.

Delta completed a review of documents on file with the DEQ. DEQ issued a NFA status for this site in March 2000 for LUST number 03-88-0034 (historical site incident number). Based on evaluation of the 2007 Phase II data, Delta believes that the current findings are related to the historical release reported in 1988 and that DEQ issue a NFA status for this site. In 1997, benzene was detected in MW-5 at concentrations of 1.58 and 18.6 micrograms per liter (µg/L) and in 2007, benzene was detected in TKSB-3 and DSSB-4 (near former monitoring well MW-5) at 2.13 and 2.71 µg/L, respectively (Figure 2). Additionally in 2007, gasoline range hydrocarbons (TPH-G) were detected at concentrations of 1,200 µg/L (TKSB-3) and 1,370 µg/L (DSSB-4) as well as diesel-range hydrocarbons (TPH-D) at concentrations of 249 µg/L (TKSB-3) and 398 µg/L (DSSB-4), which exceeded the risk-based concentrations (RBCs) for the occupational and residential ingestion and inhalation pathway for drinking water (only residential for TPH-D in TKSB-3). Furthermore, petroleum-related constituents such as benzene, ethylbenzene, and naphthalene exceeded the occupational and residential pathways for ingestion and inhalation of tap water with 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene exceeding only the residential pathway. However, these results are consistent with historical groundwater sample data from well MW-5. Additional assessment is not warranted for this site and it is Delta's opinion that concentrations detected during the 2007 Phase II are consistent with and related to the historical release.

4640 SW Macadam Avenue Suite 110 Portland, Oregon 97239 USA
Phone 503.639.8098 / 800.477.7411 Fax 503.639.7619 www.deltaenv.com

Please contact the undersigned if you have any questions.

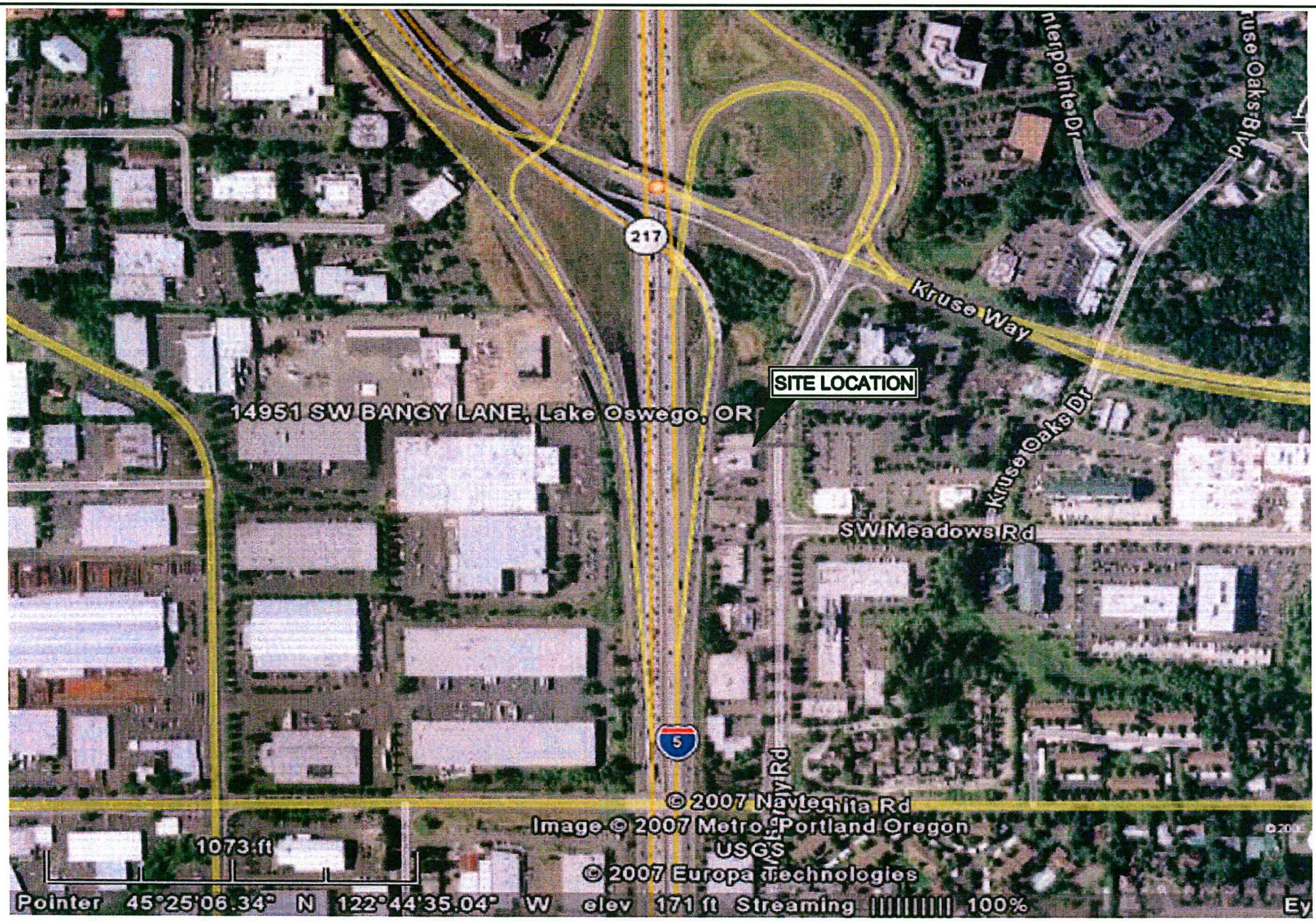
Sincerely,

DELTA CONSULTANTS

Jessica Eckart, R.G.
Project Manager

Kevin McCarthy
Project Manager

Attachment: Figure 1 – Site Location Map
Figure 2 – Site Map



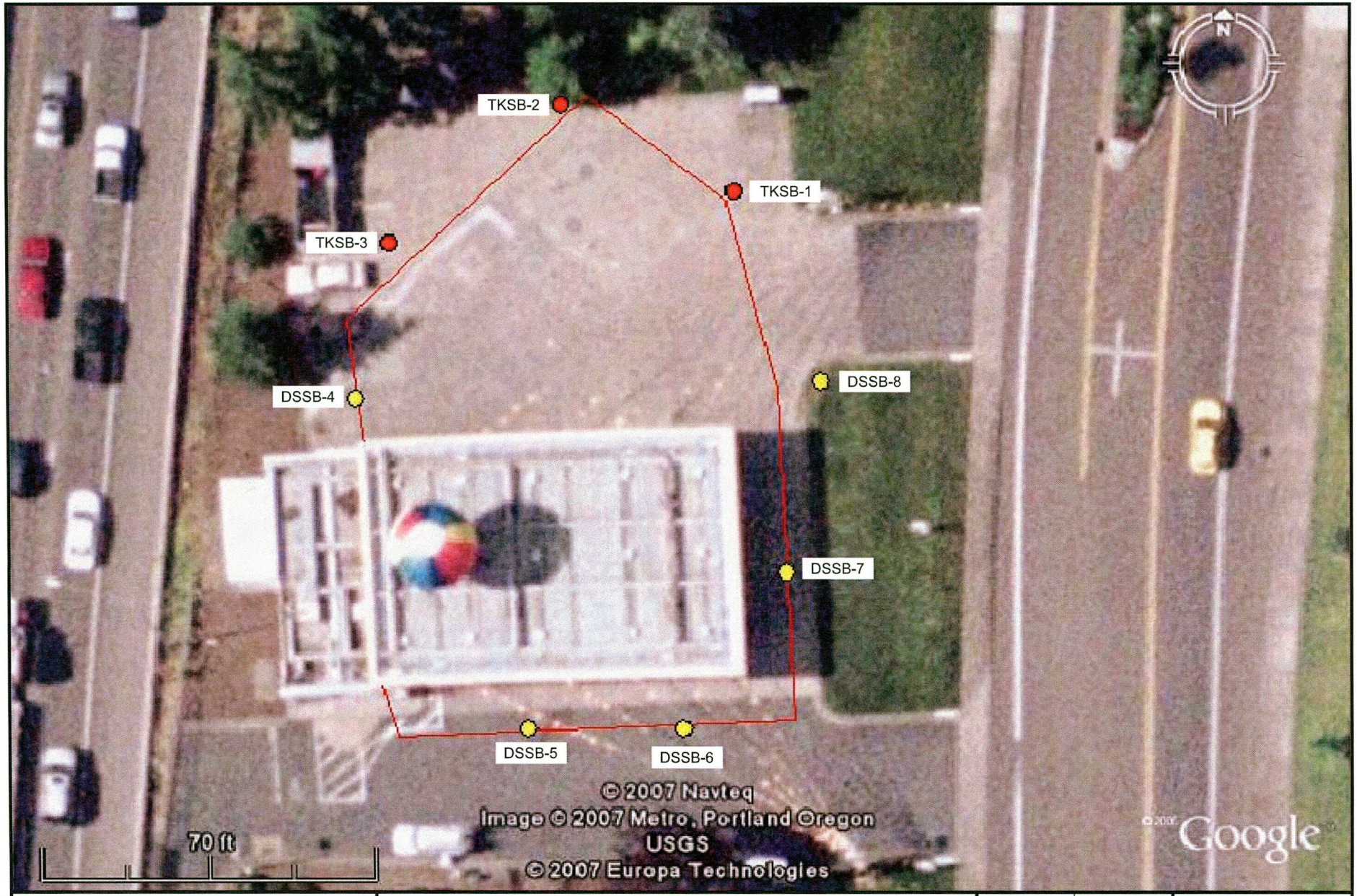
DELTA

SITE LOCATION MAP
SHELL SAP# 121704
14951 SW BANGY LANE
LAKE OSWEGO, OREGON

DRAWN BY J.F.F.	PREPARED BY GT
CHKD:	APPD:
DATE: 9/10/2007	FILE NO. 121704-1

PROJECT NO.: PTSHL-ORDW-A121704

FIGURE NO.: 1



DELTA

SITE MAP
SHELL SAP# 121704
14951 SW BANGY LANE
LAKE OSWEGO, OREGON

DRAWN BY	PREPARED BY	PROJECT NO.:
DD	NR	121704
CHKD:	APPD:	FIGURE NO.:
DATE: 10/2/07	FILE NO. 121704-2	2

DANA Kevin

From: KORTENHOF Mike
Sent: Wednesday, July 23, 2008 3:50 PM
To: 'Kevin McCarthy'; Elisabeth Silver; Jeff Schatz
Cc: DANA Kevin
Subject: RE: Shell Divestment Sites Update Meeting

Thanks. I appreciate your flexibility. See you on the 13th. Mike

-----Original Message-----
From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
Sent: Wednesday, July 23, 2008 3:43 PM
To: KORTENHOF Mike; Elisabeth Silver; Jeff Schatz
Cc: DANA Kevin
Subject: RE: Shell Divestment Sites Update Meeting

Mike – 1 pm on August 13th is a go for the Delta folks. Let us know if anything else changes. Cheers, Kevin

Kevin McCarthy
Project Manager
DELTA Consultants
4640 SW Macadam Avenue; Suite 110
Portland, OR 97239
Direct: 503.863.2102
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

From: KORTENHOF Mike [mailto:KORTENHOF.Mike@deq.state.or.us]
Sent: Wednesday, July 23, 2008 3:20 PM
To: Kevin McCarthy; Elisabeth Silver; Jeff Schatz
Cc: DANA Kevin
Subject: RE: Shell Divestment Sites Update Meeting

Hi Kevin, Elisabeth and Jeff. I've ended up with a conflict I can't avoid for this update meeting. Could we reschedule? I could do it at 1:00pm on the 13th, or would be happy to find another day it that's more convenient. Mike

Michael H. Kortenhof, RG, PE
Manager
Hazardous Waste Compliance and Underground Storage Tanks
Oregon DEQ - Northwest Region
2020 SW 4th Avenue, Suite 400, Portland OR 97201
voice: 503-229-5474
toll free in Oregon: 800-452-4011
fax: 503-229-6945
e-mail: kortenhof.mike@deq.state.or.us
web: www.deq.state.or.us

-----Original Appointment-----

From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]

Sent: Wednesday, June 04, 2008 1:32 PM

To: Elisabeth Silver; Jeff Schatz; KORTENHOF Mike; DANA Kevin

Subject: Shell Divestment Sites Update Meeting

When: Wednesday, August 13, 2008 10:00 AM-12:00 PM (GMT-08:00) Pacific Time (US & Canada).

Where: 2020 SW 4th Ave, Portland, OR

DANA Kevin

From: KORTENHOF Mike
Sent: Wednesday, June 04, 2008 12:20 PM
To: 'Kevin McCarthy'
Cc: Jeff Schatz; Elisabeth Silver; DANA Kevin; COLLINSWORTH Bart
Subject: RE: Meeting on June 4

Kevin, thanks for arranging today's conversation about moving forward with these incidents. We were glad to get the opportunity to talk with you, Jeff and Elisabeth about them.

Yes, please do go ahead and have cost recovery agreements submitted. I've cc'd Bart Collinsworth who is acting manager for UST work in our Western Region, where sites in Lane, Jackson, Yamhill, Polk and Marion counties will be handled. As we discussed, I don't expect to be able to assign a project manager to the sites in Northwest Region that will require substantial technical work before August, but if you can propose those that appear to be detections of contamination that we'd already approved leaving in place, Kevin Dana can review and get those files closed if we agree. I suggest we schedule a meeting for mid-August to check in on the status and plans for DEQ review of the other projects. The afternoon of August 13th or any time on August 14th would work well on our end, but feel free to suggest other times if that work better for you.

Thanks again, Mike

Michael H. Kortenhof, RG, PE
Manager
Hazardous Waste Compliance and Underground Storage Tanks
Oregon DEQ - Northwest Region
2020 SW 4th Avenue, Suite 400, Portland OR 97201
voice: 503-229-5474
toll free in Oregon: 800-452-4011
fax: 503-229-6945
e-mail: kortenhof.mike@deq.state.or.us
web: www.deq.state.or.us

-----Original Message-----
From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
Sent: Monday, May 19, 2008 1:59 PM
To: KORTENHOF Mike
Cc: Jeff Schatz; Elisabeth Silver
Subject: RE: Meeting on June 4

Mike - Here is a list of the Shell sites which had a new LUST incident ID opened last fall. Twenty-three of them did not have concentrations greater than the most stringent RBCs and closure was requested in the due diligence report we submitted. The remaining 33 sites (LUST IDs in BOLD in table) had at least one concentration greater than the most stringent RBCs. We have prepared Cost Recovery Agreements for all of the sites (regardless of whether the concentrations were > or < than RBCs), and we wanted to confirm this would be correct. If you could simply reply in the affirmative or let me know if you see any inaccuracies by replying to this email, I would really appreciate it. Cheers, Kevin

SAP #	ADDRESS	CITY	COUNTy	STATE	ZIP	ID
120475	1080 WEST 7TH AVENUE	EUGENE	LANE	OREGON	97402	**20-07-1366**
120507	1125 EAST PINE STREET	CENTRAL POINT	JACKSON	OREGON	97502-2456	**15-07-1572**
120522	11465 SW PACIFIC HWY	TIGARD	WASHINGTON	OREGON	97223-8627	**34-07-1370**
120535	11834 SW PACIFIC HIGHWAY	TIGARD	WASHINGTON	OREGON	97223-0000	**34-07-1312**
120586	12805 NW CORNELL ROAD	CEDAR MILL	WASHINGTON	OREGON	97229-5813	**34-07-1311**
120676	3640 GLENWOOD DRIVE	EUGENE	LANE	OREGON	97403	**20-07-1575**
120712	1220 NW WATERHOUSE AVE	BEAVERTON	WASHINGTON	OREGON	97006-0000	**34-07-1279**
120775	17395 SW FARMINGTON ROAD	ALOHA	WASHINGTON	OREGON	97007-3214	**34-07-1280**
120794	18122 SE MCLOUGHLIN BLVD	PORTLAND	MULTNOMAH	OREGON	97267-6108	**03-07-1259**
121194	3840 SOUTHEAST STARK	PORTLAND	MULTNOMAH	OREGON	97214-3239	**26-07-1122**
121592	825 IVY STREET	JUNCTION CITY	LANE	OREGON	97448	**20-07-1462**
121618	86623 EAST FRANKLIN BLVD	EUGENE	LANE	OREGON	97405-0000	**20-07-1374**
121704	14951 SW BANGY LANE	LAKE OSWEGO	CLACKAMAS	OREGON	97035-0000	**03-07-1448**
124656	204 HIGHWAY 99W (HANCOCK ST)	NEWBERG	YAMHILL	OREGON	97132-2456	**36-07-1437**
124775	125 SW WASHINGTON STREET (SR 223)	DALLAS	POLK	OREGON	97338	**27-07-1501**
124782	4292 LIBERTY ROAD S	SALEM	MARION	OREGON	97302-5757	**24-07-1488**
143633	18777 S E MCLOUGHLIN	MILWAUKIE	CLACKAMAS	OREGON	97267-6724	**03-07-1250**

146766	621 SE GRAND AVENUE	PORTLAND	MULTNOMAH	OREGON	97214-2227	26-07-1251
168254	4124 MAIN STREET (BUS 126)	SPRINGFIELD	LANE	OREGON	97478-5907	20-07-1458
116459	1259 SE TUALATIN VALLEY HWY	HILLSBORO	WASHINGTON	OREGON	97123-5073	34-07-1294
120440	10120 SW CAPITOL HIGHWAY	PORTLAND	MULTNOMAH	OREGON	97219-0000	26-07-1364
120720	16002 SE 82ND DRIVE	CLACKAMAS	CLACKAMAS	OREGON	97015-0000	03-07-1282
120769	1714 NE 33RD AVENUE	PORTLAND	MULTNOMAH	OREGON	97212-0000	26-07-1358
120816	19165 SW TUALATIN VALLEY HWY	BEAVERTON	WASHINGTON	OREGON	97006-2830	34-07-1271
120975	2355 NW TOWN CENTER DRIVE (N of NW Cornell Rd)	BEAVERTON	WASHINGTON	OREGON	97006-8909	34-07-1272
121671	9215 SE POWELL	PORTLAND	MULTNOMAH	OREGON	97266	26-07-1360
124770	2485 MISSION STREET SE (SR 22/BUS 99E)	SALEM	MARION	OREGON	97302-1118	24-07-1478
124789	4397 COMMERCIAL STREET SE	SALEM	MARION	OREGON	97302-3968	24-07-1569
125277	6820 NORTH FESSENDEN	PORTLAND	MULTNOMAH	OREGON	97203-1815	26-07-1362
165725	6950 NE CORNELL ROAD	HILLSBORO	WASHINGTON	OREGON	97124	34-07-1293
168258	6085 WEST 11TH	EUGENE	LANE	OREGON	97402	20-07-1460
168257	1720 NE HWY 99 W	MCMINNVILLE	YAMHILL	OREGON	97128-2745	36-07-1461
120442	10131 NE SANDY BLVD	PORTLAND	MULTNOMAH	OREGON	97220-3327	26-07-1319
120448	25737 SE STARK STREET	TROUTDALE	MULTNOMAH	OREGON	97060-0000	26-07-1318
120512	11290 BULL SW MOUNTAIN ROAD	TIGARD	WASHINGTON	OREGON	97224-2713	34-07-1365
120559	12155 SE FOSTER ROAD	PORTLAND	MULTNOMAH	OREGON	97266-0000	26-07-1359
120669	1491 LANCASTER DRIVE SE	SALEM	MARION	OREGON	97317-6163	24-07-1477
120678	15 NE BROADWAY STREET	PORTLAND	MULTNOMAH	OREGON	97232-0000	26-07-1357
120789	18031 SE STARK ST	PORTLAND	MULTNOMAH	OREGON	97233	26-07-1444
121028	2690 RIVER ROAD	EUGENE	LANE	OREGON	97404-2058	20-07-1451
121152	3502 PORTLAND ROAD NE	SALEM	MARION	OREGON	97301-0308	24-07-1606
121154	3515 SE 122ND AVE	PORTLAND	MULTNOMAH	OREGON	97236-0000	26-07-1313
121354	515 NE 82ND AVENUE	PORTLAND	MULTNOMAH	OREGON	97220-5801	26-07-1317
121357	519 NE BROADWAY	PORTLAND	MULTNOMAH	OREGON	97232	26-07-1356
121512	7090 SW NYBERG ROAD (E of I-5)	TUALATIN	WASHINGTON	OREGON	97062	34-07-1363
121534	7433 NORTH INTERSTATE AVENUE	PORTLAND	MULTNOMAH	OREGON	97217-5527	26-07-1321
121624	8725 SW HALL BLVD	TIGARD	WASHINGTON	OREGON	97223	34-07-1320
121672	9218 SE DIVISION	PORTLAND	MULTNOMAH	OREGON	97266-1453	26-07-1449
121713	5524 SE 82ND	PORTLAND	MULTNOMAH	OREGON	97266	26-07-1322
124396	20800 NE SANDY BLVD	FAIRVIEW	MULTNOMAH	OREGON	97024-0000	26-07-1446
124731	5820 NE GLISAN STREET	PORTLAND	MULTNOMAH	OREGON	97213	26-07-1445
124776	2795 MARKET STREET NE (SR 213)	SALEM	MARION	OREGON	97301-1642	24-07-1502
143625	608 NORTH STATE St	LAKE OSWEGO	CLACKAMAS	OREGON	97034	03-07-1315
143653	5829 NE MARTIN LUTHER KING BLVD (SR 99E)	PORTLAND	MULTNOMAH	OREGON	97211-3117	26-07-1314
124657	2005 SW HIGHWAY 99W	MCMINNVILLE	YAMHILL	OREGON	97128	36-07-1653

Kevin McCarthy
Project Manager
DELTA Consultants
4640 SW Macadam Avenue; Suite 110
Portland, OR 97239
Direct: 503.863.2102
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

-----Original Message-----
From: KORTENHOF Mike [mailto:KORTENHOF.Mike@deq.state.or.us]
Sent: Friday, May 09, 2008 3:30 PM
To: Kevin McCarthy
Cc: DANA Kevin
Subject: RE: Meeting on June 4

Hi Kevin, thanks for calling. This confirms our conversation about managing the sites reported by Shell last Fall. We will plan to meet with you on June 4 at 10:00am. In the mean time please encourage Shell to submit cost recovery agreements for each of the projects. Please call Kevin if you need more information about that. We have a waiting list and some staff vacancies so it could be a 3 to 6 month wait before

we can assign a project manager to any of the projects. In the mean time we encourage Shell to work on their cleanups on their own, particularly for any that may have significant contamination that is an ongoing environmental or human health risk. In any event any work performed on active projects should be reported to us within 30 days to be included in the file. Please don't hesitate to give Kevin or me a call if you have questions in the meantime. Looking forward to meeting with you in June, Mike

Mike

Michael H. Kortenhof, RG, PE
Manager
Hazardous Waste Compliance and Underground Storage Tanks
Oregon DEQ - Northwest Region
2020 SW 4th Avenue, Suite 400, Portland OR 97201
voice: 503-229-5474
toll free in Oregon: 800-452-4011
fax: 503-229-6945
e-mail: kortenhof.mike@deq.state.or.us
web: www.deq.state.or.us

-----Original Message-----
From: kmccarthy@deltaenv.com [mailto:kmccarthy@deltaenv.com]
Sent: Thursday, May 08, 2008 8:53 AM
To: KORTENHOF Mike
Subject: Meeting on June 4

Mike - Thanks for speaking with me yesterday. I wanted to make it easier to send out an email by providing something you could simply reply to. We look forward to meeting with in June. Cheers, Kevin

DANA Kevin

From: KORTENHOF Mike
Sent: Friday, May 09, 2008 3:30 PM
To: 'kmccarthy@deltaenv.com'
Cc: DANA Kevin
Subject: RE: Meeting on June 4

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Mike

Michael H. Kortenhof, RG, PE
Manager
Hazardous Waste Compliance and Underground Storage Tanks
Oregon DEQ - Northwest Region
2020 SW 4th Avenue, Suite 400, Portland OR 97201
voice: 503-229-5474
toll free in Oregon: 800-452-4011
fax: 503-229-6945
e-mail: kortenhof.mike@deq.state.or.us
web: www.deq.state.or.us

-----Original Message-----
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Sent: Thursday, May 08, 2008 8:53 AM
To: KORTENHOF Mike
Subject: Meeting on June 4

Mike - Thanks for speaking with me yesterday. I wanted to make it easier to send out an email by providing something you could simply reply to. We look forward to meeting with in June. Cheers, Kevin

DANA Kevin

From: Kevin McCarthy [KMcCarthy@deltaenv.com]

Sent: Friday, January 04, 2008 3:07 PM

To: Terry Jacques; Darryl Metzger; locatesdownunder@hotmail.com; SCHERZINGER Bruce; s.flaherty@stratuscorp.net; Christina Woodcock; Sarah Rockwell; Kortland Orr; denali@ak.net; DANA Kevin; Matt Neal; jeff.goold@shell.com; David.kremer@shell.com

Cc: Devon Roulette; Brian Pletcher; Jeff Schatz; Timothy Browning; Todd Vanek

Subject: We moved!

All – We have finally moved into our new office, and here is the new contact/mailing information:
DELTA Consultants
4640 SW Macadam Avenue
Suite 110
Portland, Oregon 97239

Main line – 503-639-8098
Fax line – 503-639-7619

My direct line and other information is below:

Kevin McCarthy
Project Manager
DELTA Consultants
4640 SW Macadam Avenue; Suite 110
Portland, OR 97239
Direct: 503.863.2102
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

Oregon
Theodore R. Kulongoski, Governor

Department of Environmental Quality
Northwest Region Portland Office
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5263
FAX (503) 229-6945
TTY (503) 229-5471

October 22, 2007

JEFF GOOLD
SHELL OIL PRODUCTS US
20945 S WILMINGTON AVE
CARSON CA 90810-1039

RE: Shell Station #121704
File No.: 03-07-1448

On September 14, 2007, a release was reported from an underground storage tank (UST) system at your facility located at 14951 SW Bangy Road in Lake Oswego, Oregon. As the responsible party for the facility, you are required to clean up the release according to OAR 340-122-0201 through 340-122-0360. These rules require cleaning up the soil, groundwater, surface water and any other media contaminated by petroleum to the appropriate standards or demonstrating that the contamination does not pose a risk to human health or the environment. We are looking forward to working with you to bring this site to closure.

An Initial Report Form for UST Cleanup Projects is enclosed. This form needs to be completed and returned to this office within twenty (20) days from the date the release was reported. An outline of additional reporting requirements that includes due dates for submittals is also enclosed. A copy of the UST Cleanup regulations or an application for a letter of authorization for soil treatment will be provided upon request. As the responsible party, you should be aware of the requirements for cleanup, even if you have hired a qualified contractor or consultant to assist you.

Please reference the DEQ File Number listed above in all future correspondence and reports.

By law, DEQ is required to recover project oversight costs. DEQ oversight begins with the initial site characterization and continues through site closure. Oversight includes activities such as reviewing reports, preparing correspondence, answering technical questions, site inspections, and enforcement actions. **You will be receiving an invoice each month for all oversight activities performed to date.**

DEQ's highest priority for oversight are those sites that pose the greatest hazard to human health, safety and the environment. As a result, many lower environmental priority sites will not be reviewed in detail or receive a final "No Further Action" or "closure" letter from DEQ until the higher priority sites are addressed. However, all projects, simple or complex, require at least some oversight. At a minimum, review is conducted to determine the environmental priority of the cleanup project.

For those responsible parties who desire DEQ oversight regardless of environmental priority, we have developed a Responsible Party Priority Site Program. To receive oversight and more effectively schedule your project, you will be asked to sign an agreement requesting priority review and confirming your agreement to pay DEQ oversight costs in a timely manner.

Not entering into the Agreement does not release you from responsibility for investigation and/or cleanup of the contamination, nor does it mean that you are exempt from paying for DEQ oversight costs. Please be aware that there may be a waiting list for assignment to the next available project manager, and that these projects are assigned on a first come, first served basis.

Please read the attached information on the cost recovery and invoice process. We have also included information about the Responsible Party Priority Site Program and an agreement, if you are interested in expediting review of your project. You may contact the Land Quality Division at (503) 229-6635 if you have questions about cost recovery.

Thank you for your cooperation and continued efforts to comply with the regulations. **If you have any questions about the regulations and/or your cleanup project, please call (503) 229-5263 and ask to speak to the Underground Storage Tank Duty Officer.**

Sincerely,

Michael H. Kortenhof, Manager
UST Cleanup and Compliance Section

Enclosures

PortlandMaps

Aerial Photo

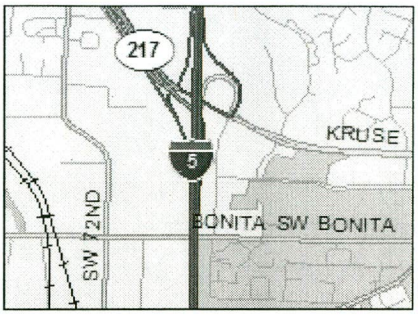
2006 / '05 / '04 / '03 / '02 / '01 6" / **2'** / 4' / 10' / 20' Streets: On / **Off** Lots: On / **Off** Dot: **On** / Off

0 100 FT

City of Portland, Corporate GIS 10/9/2007

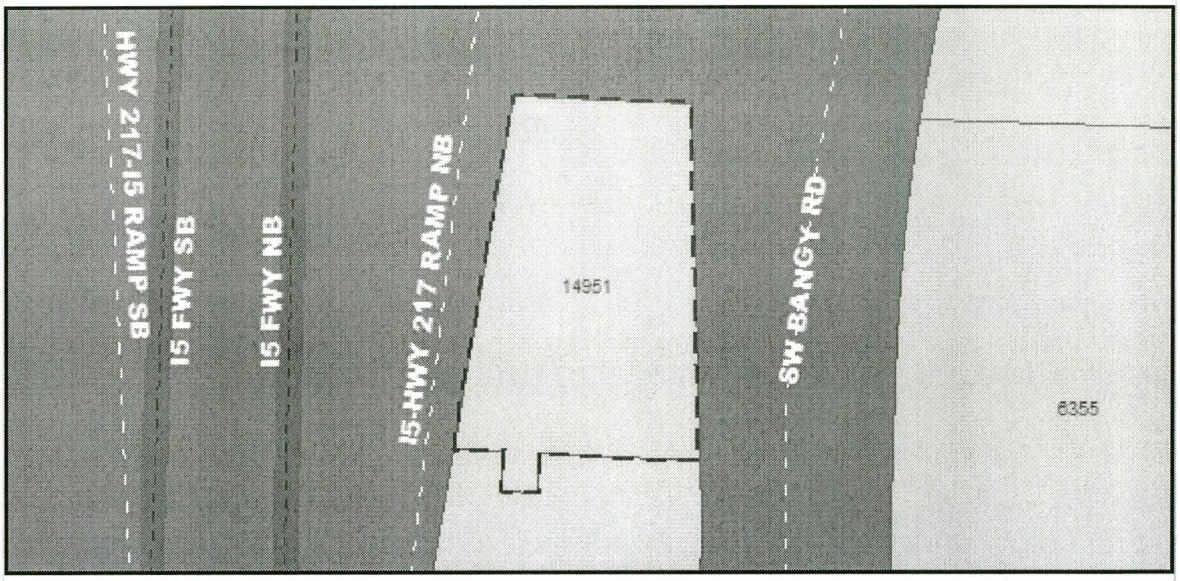
PortlandMaps

14951 SW BANGY RD



Description
Size n/a
Number of Bedrooms
Bathrooms

Property Map



Property Value (2006)

Market Value $1,990,550.00
Assessed Value $0.00

Taxes ()

Property Taxes $0.00
Total Taxes $0.00

Misc Info

Year Built 0
Foundation Type
Interior Finish
Roof Style
Roof Cover Type
Flooring Type
Heating/AC Type

City of Portland, Corporate GIS

Assessor Data Updated 10/2/2007

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

State of Oregon Department of Environmental Quality

Initial (Twenty Day) Report Form for UST Cleanup Projects

This report is due twenty (20) days from the date of the release.

DEQ USTC File No. 03-07-1448

DEQ Facility ID No. 838

Site Name: Shell Station No. 121704

Site Address: 14951 Bangy Rd., Lake Oswego, OR

INITIAL CLEANUP INFORMATION

(1) Type of contamination (check all that apply):

X Gasoline ___ Diesel ___ Waste Oil ___ Heating Oil

___ Other (specify) _____

(2) Estimate quantity of release (based on information known to date):

X <100 gal. ___ 100-499 gal. ___ 500-999 gal. ___ 1,000-5,000 gal. ___ >5,000 gal.

SITE INFORMATION (Circle **N** for "no" or **Y** for "yes")

(3) **N** **Y** Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface: N/A

(4) **N** **Y** Was a sheen or odor observed on any water in the excavation? N/A

Note: If groundwater is encountered, soil samples from the soil/water interface must be collected and analyzed for BTEX and by the appropriate TPH method.

At sites where diesel or other non-gasoline products have been released, the water may also have to be screened or tested for polynuclear aromatic hydrocarbons (PAHs). *Please refer to OAR 340-122-0218.*

(5) **N** **Y** Was water pumped from the excavation? N/A

N **Y** If yes, did groundwater recharge within 24 hours after pumping? N/A

Please describe the pumping procedure and disposal option selected for the purged excavation water:

N/A

(6) **N** **Y** Were any water samples collected from the excavation? If yes, please describe:

Four grab groundwater samples were collected from site borings.

(7) **N** (Y) Have any soil and/or water sample results been received at this time?

If so, please attach any lab reports.

IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW.
IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8) What are the known uses of groundwater within a 500-foot radius of the release site?

X non-use ___ industrial ___ agricultural ___ drinking supply

(9) If groundwater in this area is being used as a drinking water supply, please check the type and size of population served by the supply:

___ Community (community well used for drinking water year round)

size: ___ <1,000 people ___ 1,000 - 5,000 people ___ >5,000 people

___ Intermittent use (public water used for drinking water only on a part-time basis)

size: ___ <50 people ___ 50 - 300 people ___ > 300 people

___ Private wells (individual private well or wells used for drinking water)

size: ___ <10 people ___ 10 - 25 people ___ >25 people

(10) (N) Y Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:

___ bottled water is the only alternative
___ on-site water treatment; bulk water delivery; new wells are available
___ able to connect to existing water supply
___ do not know what alternatives would be available

(11) (N) Y Are/were vapors present in on-site or nearby buildings? If yes:

A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain: _____

_____

B. Estimate the number of people potentially affected by vapors:

___ 1-2 people ___ 3-10 people ___ >10 people

(12) N Y Are vapors or is petroleum contamination present in the utility corridors?

If yes, please explain: Unknown

(13) N Y Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, *etc.*) and proximity: A small wetland area is South of the station, adjacent to a Chevy's Restaurant

(14) (N) Y If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA/SITE CONDITIONS:

(15) Mean annual rainfall: ___ <20 inches X 20-45 inches ___ >45 inches

(16) Soil type(s) of the naturally occurring soils, not the backfill around the tank:

___ clays, compact tills, shales, and unfractured metamorphic and igneous rocks

___ sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock

X fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites

SOIL MANAGEMENT

(17) If soil sample results have been received:

(N) Y Will the level of contamination detected require removal of contaminated soil for treatment or disposal?

(18) All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. If you haven't done this, please explain why:

Soil cuttings from investigation activities were containerized in DOT-approved 55-gallon drums pending transport to an approved disposal facility.

Note: It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days without a DEQ Solid Waste Letter Authorization (SWLA) Permit.

(19) If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin: Approximately 60-90 days

(20) Estimated volume of contaminated soil (specify tons or cubic yards): 1 ton

(21) Intended disposition of soils (please check one):

___ On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.

___ Thermal treatment off-site at an authorized facility.
Facility name: _____

Y Landfill disposal.
Name of Landfill: Hillsboro Landfill

Note: Please attach additional information as necessary to explain any unusual circumstances associated with this project.

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.

2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

THIS REPORT WAS PREPARED BY:

Individual: Jeff K. Schatz, R. G. Phone: (503) 639-8098

Company: Delta Consultants

Address: 7150 SW Hampton Suite 220

City: Tigard State OR Zip 97223

1. Please return this form to the regional office in which the site is located. If you have questions, call the contact person in your regional office.

2. For all tanks, except heating oil tanks, you must submit an *UST Decommissioning Checklist and Site Assessment Report* to the appropriate regional office within 30 days of the UST decommissioning. Failure to do so can result in delays to your project and may result in continued billing for the annual tank permit fees.

3. Addresses and phone numbers for the regional offices can be found in the *UST Cleanup Manual* or viewed and downloaded from this DEQ Webpage: http://www.deq.state.or.us/wmc/tank/regoffices.htm

4. Copies of the *UST Cleanup Manual* and other UST program forms and checklists can be viewed and downloaded from DEQ's Website: http://www.deq.state.or.us/wmc/tank/ust-lust.htm

or in the Portland area by calling Steve Paiko at 503-229-6652

or outside the Portland area leaving a message on the UST Help Line (toll-free in Oregon) at 1-800-742-7878

KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

September 13, 2007 4:11:06PM

Client: Delta Environmental (Minnesota) / Shell
5910 Rice Creek Pkwy, Ste 100
St. Paul, MN 55126
Attn: Mike Lee

Work Order: NQH3608
Project Name: 14951 SW Bangy Lane, Lake Oswego, OR
Project Nbr: SAP 121704
P/O Nbr:
Date Received: 08/30/07

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
TKSB-1-8	NQH3608-01	08/27/07 11:15
TKSB-1	NQH3608-02	08/27/07 11:15
TKSB-3-8	NQH3608-03	08/27/07 10:00
TKSB-3	NQH3608-04	08/27/07 10:00
DSSB-4-8	NQH3608-05	08/27/07 09:30
DSSB-4	NQH3608-06	08/27/07 09:30
DSSB-5-10	NQH3608-07	08/27/07 12:30
DSSB-5	NQH3608-08	08/27/07 12:30
Trip Blank	NQH3608-09	08/27/07 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

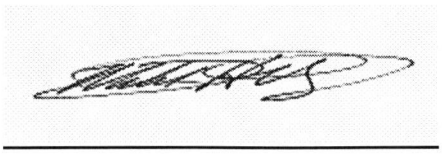
.

Oregon Certification Number: TN200001

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainity is available upon request.
This report has been electronically signed.
Report Approved By:



Mark Hollingsworth

Program Manager - National Accounts

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-01 (TKSB-1-8 - Soil) Sampled: 08/27/07 11:15								
Total Metals by EPA Method 6010B								
Lead	**5.53**		mg/kg	0.994	1	09/07/07 08:01	SW846 6010B	7085913
Volatile Organic Compounds by EPA Method 8260B								
Tertiary Butyl Alcohol	ND		mg/kg	0.0478	1	09/08/07 02:15	SW846 8260B	7090348
Diisopropyl Ether	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Ethyl tert-Butyl Ether	ND		mg/kg	0.00478	1	09/08/07 02:15	SW846 8260B	7090348
Tert-Amyl Methyl Ether	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Benzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
1,2-Dibromoethane (EDB)	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
1,2-Dichloroethane	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Ethylbenzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Isopropylbenzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Methyl tert-Butyl Ether	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
n-Propylbenzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Toluene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
1,3,5-Trimethylbenzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
1,2,4-Trimethylbenzene	ND		mg/kg	0.00191	1	09/08/07 02:15	SW846 8260B	7090348
Xylenes, total	ND		mg/kg	0.00478	1	09/08/07 02:15	SW846 8260B	7090348
Surr: 1,2-Dichloroethane-d4 (54-145%)	*103 %*					*09/08/07 02:15*	*SW846 8260B*	*7090348*
Surr: Dibromofluoromethane (67-129%)	*104 %*					*09/08/07 02:15*	*SW846 8260B*	*7090348*
Surr: Toluene-d8 (66-142%)	*98 %*					*09/08/07 02:15*	*SW846 8260B*	*7090348*
Surr: 4-Bromofluorobenzene (68-150%)	*96 %*					*09/08/07 02:15*	*SW846 8260B*	*7090348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Acenaphthylene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Anthracene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Benzo (a) anthracene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Benzo (a) pyrene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Benzo (b) fluoranthene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Benzo (g,h,i) perylene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Benzo (k) fluoranthene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Chrysene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Dibenz (a,h) anthracene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Fluoranthene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Fluorene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Indeno (1,2,3-cd) pyrene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
2-Methylnaphthalene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Naphthalene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Phenanthrene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Pyrene	ND		mg/kg	0.00331	1	09/03/07 05:54	SW846 8270CSIM	7085875
Surr: Nitrobenzene-d5 (34-87%)	*91 %*	*Z10*				*09/03/07 05:54*	*SW846 8270CSIM*	*7085875*
Surr: 2-Fluorobiphenyl (30-93%)	*77 %*					*09/03/07 05:54*	*SW846 8270CSIM*	*7085875*
Surr: Terphenyl-d14 (49-123%)	*99 %*					*09/03/07 05:54*	*SW846 8270CSIM*	*7085875*
Extractable Petroleum Hydrocarbons								

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-01 (TKSB-1-8 - Soil) - cont. Sampled: 08/27/07 11:15								
Extractable Petroleum Hydrocarbons - cont.								
Diesel	ND		mg/kg	3.89	1	09/02/07 00:06	NWTPH-Dx	7085991
Motor Oil	ND		mg/kg	3.89	1	09/02/07 00:06	NWTPH-Dx	7085991
Surr: o-Terphenyl (50-150%)	*118 %*					*09/02/07 00:06*	*NWTPH-Dx*	*7085991*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg	4.84	50	09/06/07 04:07	NWTPH-Gx	7090910
Surr: a,a,a-Trifluorotoluene (52-145%)	*95 %*					*09/06/07 04:07*	*NWTPH-Gx*	*7090910*
Sample ID: NQH3608-02 (TKSB-1 - Ground Water) Sampled: 08/27/07 11:15								
Dissolved Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	09/06/07 00:19	SW846 6010B	7090249
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	09/05/07 10:15	SW846 8260B	7090635
Ethyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 10:15	SW846 8260B	7090635
Diisopropyl Ether	ND		ug/L	1.00	1	09/05/07 10:15	SW846 8260B	7090635
Benzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	09/05/07 10:15	SW846 8260B	7090635
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
1,1-Dichloroethane	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Ethylbenzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Isopropylbenzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
n-Propylbenzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Toluene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	09/07/07 23:45	SW846 8260B	7091613
Xylenes, total	ND		ug/L	3.00	1	09/07/07 23:45	SW846 8260B	7091613
Surr: 1,2-Dichloroethane-d4 (62-142%)	*87 %*					*09/07/07 23:45*	*SW846 8260B*	*7091613*
Surr: Dibromofluoromethane (78-123%)	*90 %*					*09/07/07 23:45*	*SW846 8260B*	*7091613*
Surr: Toluene-d8 (79-120%)	*91 %*					*09/07/07 23:45*	*SW846 8260B*	*7091613*
Surr: 4-Bromofluorobenzene (75-133%)	*98 %*					*09/07/07 23:45*	*SW846 8260B*	*7091613*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Acenaphthylene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Anthracene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Benzo (a) anthracene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Benzo (a) pyrene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Benzo (b) fluoranthene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Benzo (g,h,i) perylene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Benzo (k) fluoranthene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Chrysene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Dibenz (a,h) anthracene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Fluoranthene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-02 (TKSB-1 - Ground Water) - cont. Sampled: 08/27/07 11:15								
Polyaromatic Hydrocarbons by EPA 8270C SIM - cont.								
Fluorene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
2-Methylnaphthalene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Naphthalene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Phenanthrene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Pyrene	ND		ug/L	0.120	1	09/05/07 00:57	SW846 8270CSIM	7085854
Surr: Nitrobenzene-d5 (24-125%)	*95 %*					*09/05/07 00:57*	*SW846 8270CSIM*	*7085854*
Surr: 2-Fluorobiphenyl (30-120%)	*88 %*					*09/05/07 00:57*	*SW846 8270CSIM*	*7085854*
Surr: Terphenyl-d14 (29-149%)	*82 %*					*09/05/07 00:57*	*SW846 8270CSIM*	*7085854*
Extractable Petroleum Hydrocarbons								
Diesel	ND		ug/L	95.7	1	09/01/07 23:16	NWTPH-Dx	7085915
Motor Oil	**149**	QP1, QP6	ug/L	95.7	1	09/01/07 23:16	NWTPH-Dx	7085915
Surr: o-Terphenyl (50-150%)	*79 %*					*09/01/07 23:16*	*NWTPH-Dx*	*7085915*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	09/06/07 01:17	NWTPH-Gx	7090564
Surr: a,a,a-Trifluorotoluene (46-153%)	*83 %*					*09/06/07 01:17*	*NWTPH-Gx*	*7090564*
Sample ID: NQH3608-03 (TKSB-3-8 - Soil) Sampled: 08/27/07 10:00								
Total Metals by EPA Method 6010B								
Lead	**6.80**		mg/kg	0.954	1	09/07/07 08:26	SW846 6010B	7085913
Volatile Organic Compounds by EPA Method 8260B								
Tertiary Butyl Alcohol	ND		mg/kg	0.0496	1	09/08/07 02:46	SW846 8260B	7090348
Diisopropyl Ether	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Ethyl tert-Butyl Ether	ND		mg/kg	0.00496	1	09/08/07 02:46	SW846 8260B	7090348
Tert-Amyl Methyl Ether	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Benzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
1,2-Dibromoethane (EDB)	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
1,2-Dichloroethane	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Ethylbenzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Isopropylbenzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Methyl tert-Butyl Ether	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
n-Propylbenzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Toluene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
1,3,5-Trimethylbenzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
1,2,4-Trimethylbenzene	ND		mg/kg	0.00198	1	09/08/07 02:46	SW846 8260B	7090348
Xylenes, total	ND		mg/kg	0.00496	1	09/08/07 02:46	SW846 8260B	7090348
Surr: 1,2-Dichloroethane-d4 (54-145%)	*102 %*					*09/08/07 02:46*	*SW846 8260B*	*7090348*
Surr: Dibromofluoromethane (67-129%)	*103 %*					*09/08/07 02:46*	*SW846 8260B*	*7090348*
Surr: Toluene-d8 (66-142%)	*98 %*					*09/08/07 02:46*	*SW846 8260B*	*7090348*
Surr: 4-Bromofluorobenzene (68-150%)	*95 %*					*09/08/07 02:46*	*SW846 8260B*	*7090348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-03 (TKSB-3-8 - Soil) - cont. Sampled: 08/27/07 10:00								
Polyaromatic Hydrocarbons by EPA 8270C SIM - cont.								
Acenaphthylene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Anthracene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Benzo (a) anthracene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Benzo (a) pyrene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Benzo (b) fluoranthene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Benzo (g,h,i) perylene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Benzo (k) fluoranthene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Chrysene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Dibenz (a,h) anthracene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Fluoranthene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Fluorene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Indeno (1,2,3-cd) pyrene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
2-Methylnaphthalene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Naphthalene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Phenanthrene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Pyrene	ND		mg/kg	0.00324	1	09/03/07 06:14	SW846 8270CSIM	7085875
Surr: Nitrobenzene-d5 (34-87%)	*95 %*	*Z10*				*09/03/07 06:14*	*SW846 8270CSIM*	*7085875*
Surr: 2-Fluorobiphenyl (30-93%)	*81 %*					*09/03/07 06:14*	*SW846 8270CSIM*	*7085875*
Surr: Terphenyl-d14 (49-123%)	*95 %*					*09/03/07 06:14*	*SW846 8270CSIM*	*7085875*
Extractable Petroleum Hydrocarbons								
Diesel	ND		mg/kg	3.95	1	09/02/07 00:22	NWTPH-Dx	7085991
Motor Oil	ND		mg/kg	3.95	1	09/02/07 00:22	NWTPH-Dx	7085991
Surr: o-Terphenyl (50-150%)	*96 %*					*09/02/07 00:22*	*NWTPH-Dx*	*7085991*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg	4.95	50	09/07/07 11:36	NWTPH-Gx	7090910
Surr: a,a,a-Trifluorotoluene (52-145%)	*95 %*					*09/07/07 11:36*	*NWTPH-Gx*	*7090910*
Sample ID: NQH3608-04 (TKSB-3 - Ground Water) Sampled: 08/27/07 10:00								
Dissolved Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	09/06/07 00:24	SW846 6010B	7090249
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Ethyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Diisopropyl Ether	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Benzene	**2.13**		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	09/05/07 10:40	SW846 8260B	7090635
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
1,1-Dichloroethane	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Ethylbenzene	**119**		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
Isopropylbenzene	**5.66**		ug/L	1.00	1	09/08/07 00:11	SW846 8260B	7091613
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
n-Propylbenzene	**14.5**		ug/L	1.00	1	09/08/07 00:11	SW846 8260B	7091613

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-04 (TKSB-3 - Ground Water) - cont. Sampled: 08/27/07 10:00								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Toluene	**3.50**		ug/L	1.00	1	09/05/07 10:40	SW846 8260B	7090635
1,3,5-Trimethylbenzene	**19.9**		ug/L	1.00	1	09/08/07 00:11	SW846 8260B	7091613
1,2,4-Trimethylbenzene	**25.0**		ug/L	1.00	1	09/08/07 00:11	SW846 8260B	7091613
Xylenes, total	**40.2**		ug/L	3.00	1	09/05/07 10:40	SW846 8260B	7090635
Surr: 1,2-Dichloroethane-d4 (62-142%)	*105 %*					*09/05/07 10:40*	*SW846 8260B*	*7090635*
Surr: 1,2-Dichloroethane-d4 (62-142%)	*88 %*					*09/08/07 00:11*	*SW846 8260B*	*7091613*
Surr: Dibromofluoromethane (78-123%)	*96 %*					*09/05/07 10:40*	*SW846 8260B*	*7090635*
Surr: Dibromofluoromethane (78-123%)	*91 %*					*09/08/07 00:11*	*SW846 8260B*	*7091613*
Surr: Toluene-d8 (79-120%)	*99 %*					*09/05/07 10:40*	*SW846 8260B*	*7090635*
Surr: Toluene-d8 (79-120%)	*92 %*					*09/08/07 00:11*	*SW846 8260B*	*7091613*
Surr: 4-Bromofluorobenzene (75-133%)	*93 %*					*09/05/07 10:40*	*SW846 8260B*	*7090635*
Surr: 4-Bromofluorobenzene (75-133%)	*95 %*					*09/08/07 00:11*	*SW846 8260B*	*7091613*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Acenaphthylene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Anthracene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Benzo (a) anthracene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Benzo (a) pyrene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Benzo (b) fluoranthene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Benzo (g,h,i) perylene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Benzo (k) fluoranthene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Chrysene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Dibenz (a,h) anthracene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Fluoranthene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Fluorene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
2-Methylnaphthalene	**12.3**		ug/L	0.385	4	09/05/07 11:07	SW846 8270CSIM	7085854
Naphthalene	**17.8**		ug/L	0.385	4	09/05/07 11:07	SW846 8270CSIM	7085854
Phenanthrene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Pyrene	ND		ug/L	0.0962	1	09/05/07 01:17	SW846 8270CSIM	7085854
Surr: Nitrobenzene-d5 (24-125%)	*98 %*					*09/05/07 01:17*	*SW846 8270CSIM*	*7085854*
Surr: 2-Fluorobiphenyl (30-120%)	*85 %*					*09/05/07 01:17*	*SW846 8270CSIM*	*7085854*
Surr: Terphenyl-d14 (29-149%)	*79 %*					*09/05/07 01:17*	*SW846 8270CSIM*	*7085854*
Extractable Petroleum Hydrocarbons								
Diesel	**249**	QP3a, QP6	ug/L	95.7	1	09/01/07 23:33	NWTPH-Dx	7085915
Motor Oil	ND		ug/L	95.7	1	09/01/07 23:33	NWTPH-Dx	7085915
Surr: o-Terphenyl (50-150%)	*96 %*					*09/01/07 23:33*	*NWTPH-Dx*	*7085915*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	**1200**		ug/L	100	1	09/06/07 01:45	NWTPH-Gx	7090564
Surr: a,a,a-Trifluorotoluene (46-153%)	*88 %*					*09/06/07 01:45*	*NWTPH-Gx*	*7090564*

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-05 (DSSB-4-8 - Soil) Sampled: 08/27/07 09:30								
Total Metals by EPA Method 6010B								
Lead	**6.63**		mg/kg	1.00	1	09/07/07 08:30	SW846 6010B	7085913
Volatile Organic Compounds by EPA Method 8260B								
Tertiary Butyl Alcohol	ND		mg/kg	0.0491	1	09/08/07 03:17	SW846 8260B	7090348
Diisopropyl Ether	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Ethyl tert-Butyl Ether	ND		mg/kg	0.00491	1	09/08/07 03:17	SW846 8260B	7090348
Tert-Amyl Methyl Ether	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Benzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
1,2-Dibromoethane (EDB)	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
1,2-Dichloroethane	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Ethylbenzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Isopropylbenzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Methyl tert-Butyl Ether	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
n-Propylbenzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Toluene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
1,3,5-Trimethylbenzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
1,2,4-Trimethylbenzene	ND		mg/kg	0.00196	1	09/08/07 03:17	SW846 8260B	7090348
Xylenes, total	ND		mg/kg	0.00491	1	09/08/07 03:17	SW846 8260B	7090348
Surr: 1,2-Dichloroethane-d4 (54-145%)	*102 %*					*09/08/07 03:17*	*SW846 8260B*	*7090348*
Surr: Dibromofluoromethane (67-129%)	*104 %*					*09/08/07 03:17*	*SW846 8260B*	*7090348*
Surr: Toluene-d8 (66-142%)	*98 %*					*09/08/07 03:17*	*SW846 8260B*	*7090348*
Surr: 4-Bromofluorobenzene (68-150%)	*94 %*					*09/08/07 03:17*	*SW846 8260B*	*7090348*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Acenaphthylene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Anthracene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Benzo (a) anthracene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Benzo (a) pyrene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Benzo (b) fluoranthene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Benzo (g,h,i) perylene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Benzo (k) fluoranthene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Chrysene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Dibenz (a,h) anthracene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Fluoranthene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Fluorene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Indeno (1,2,3-cd) pyrene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
2-Methylnaphthalene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Naphthalene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Phenanthrene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Pyrene	ND		mg/kg	0.00329	1	09/03/07 06:34	SW846 8270CSIM	7085875
Surr: Nitrobenzene-d5 (34-87%)	*93 %*	*Z10*				*09/03/07 06:34*	*SW846 8270CSIM*	*7085875*
Surr: 2-Fluorobiphenyl (30-93%)	*80 %*					*09/03/07 06:34*	*SW846 8270CSIM*	*7085875*
Surr: Terphenyl-d14 (49-123%)	*93 %*					*09/03/07 06:34*	*SW846 8270CSIM*	*7085875*
Extractable Petroleum Hydrocarbons								

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-05 (DSSB-4-8 - Soil) - cont. Sampled: 08/27/07 09:30								
Extractable Petroleum Hydrocarbons - cont.								
Diesel	ND		mg/kg	3.91	1	09/02/07 00:37	NWTPH-Dx	7085991
Motor Oil	ND		mg/kg	3.91	1	09/02/07 00:37	NWTPH-Dx	7085991
Surr: o-Terphenyl (50-150%)	*93 %*					*09/02/07 00:37*	*NWTPH-Dx*	*7085991*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		mg/kg	4.99	50	09/06/07 05:31	NWTPH-Gx	7090910
Surr: a,a,a-Trifluorotoluene (52-145%)	*94 %*					*09/06/07 05:31*	*NWTPH-Gx*	*7090910*
Sample ID: NQH3608-06 (DSSB-4 - Ground Water) Sampled: 08/27/07 09:30								
Dissolved Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	09/06/07 00:28	SW846 6010B	7090249
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Ethyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Diisopropyl Ether	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Benzene	**2.71**		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	09/05/07 11:04	SW846 8260B	7090635
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
1,1-Dichloroethane	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Ethylbenzene	**18.8**		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Isopropylbenzene	**4.31**	H2	ug/L	1.00	1	09/10/07 17:36	SW846 8260B	7090180
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
n-Propylbenzene	**5.83**	H2	ug/L	1.00	1	09/10/07 17:36	SW846 8260B	7090180
Toluene	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
1,3,5-Trimethylbenzene	**6.07**	H2	ug/L	1.00	1	09/10/07 17:36	SW846 8260B	7090180
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	09/05/07 11:04	SW846 8260B	7090635
Xylenes, total	ND		ug/L	3.00	1	09/05/07 11:04	SW846 8260B	7090635
Surr: 1,2-Dichloroethane-d4 (62-142%)	*103 %*					*09/05/07 11:04*	*SW846 8260B*	*7090635*
Surr: 1,2-Dichloroethane-d4 (62-142%)	*96 %*					*09/10/07 17:36*	*SW846 8260B*	*7090180*
Surr: Dibromofluoromethane (78-123%)	*125 %*	*Z10*				*09/05/07 11:04*	*SW846 8260B*	*7090635*
Surr: Dibromofluoromethane (78-123%)	*97 %*					*09/10/07 17:36*	*SW846 8260B*	*7090180*
Surr: Toluene-d8 (79-120%)	*99 %*					*09/05/07 11:04*	*SW846 8260B*	*7090635*
Surr: Toluene-d8 (79-120%)	*105 %*					*09/10/07 17:36*	*SW846 8260B*	*7090180*
Surr: 4-Bromofluorobenzene (75-133%)	*92 %*					*09/05/07 11:04*	*SW846 8260B*	*7090635*
Surr: 4-Bromofluorobenzene (75-133%)	*98 %*					*09/10/07 17:36*	*SW846 8260B*	*7090180*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Acenaphthylene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Anthracene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Benzo (a) anthracene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Benzo (a) pyrene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Benzo (b) fluoranthene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Benzo (g,h,i) perylene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Benzo (k) fluoranthene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-06 (DSSB-4 - Ground Water) - cont. Sampled: 08/27/07 09:30								
Polyaromatic Hydrocarbons by EPA 8270C SIM - cont.								
Chrysene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Dibenz (a,h) anthracene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Fluoranthene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Fluorene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
2-Methylnaphthalene	**2.59**		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Naphthalene	**4.41**		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Phenanthrene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Pyrene	ND		ug/L	0.106	1	09/05/07 01:37	SW846 8270CSIM	7085854
Surr: Nitrobenzene-d5 (24-125%)	*96 %*					*09/05/07 01:37*	*SW846 8270CSIM*	*7085854*
Surr: 2-Fluorobiphenyl (30-120%)	*89 %*					*09/05/07 01:37*	*SW846 8270CSIM*	*7085854*
Surr: Terphenyl-d14 (29-149%)	*80 %*					*09/05/07 01:37*	*SW846 8270CSIM*	*7085854*
Extractable Petroleum Hydrocarbons								
Diesel	**398**	QP3, QP6	ug/L	96.2	1	09/01/07 23:51	NWTPH-Dx	7085915
Motor Oil	ND		ug/L	96.2	1	09/01/07 23:51	NWTPH-Dx	7085915
Surr: o-Terphenyl (50-150%)	*99 %*					*09/01/07 23:51*	*NWTPH-Dx*	*7085915*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	**1370**		ug/L	100	1	09/06/07 02:13	NWTPH-Gx	7090564
Surr: a,a,a-Trifluorotoluene (46-153%)	*92 %*					*09/06/07 02:13*	*NWTPH-Gx*	*7090564*
Sample ID: NQH3608-07 (DSSB-5-10 - Soil) Sampled: 08/27/07 12:30								
Total Metals by EPA Method 6010B								
Lead	**5.78**		mg/kg	1.01	1	09/07/07 08:37	SW846 6010B	7085913
Volatile Organic Compounds by EPA Method 8260B								
Tertiary Butyl Alcohol	ND		mg/kg	0.0485	1	09/08/07 03:48	SW846 8260B	7090348
Diisopropyl Ether	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Ethyl tert-Butyl Ether	ND		mg/kg	0.00485	1	09/08/07 03:48	SW846 8260B	7090348
Tert-Amyl Methyl Ether	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Benzene	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
1,2-Dibromoethane (EDB)	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
1,2-Dichloroethane	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Ethylbenzene	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Isopropylbenzene	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Methyl tert-Butyl Ether	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
n-Propylbenzene	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Toluene	ND		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
1,3,5-Trimethylbenzene	**0.00227**		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
1,2,4-Trimethylbenzene	**0.00830**		mg/kg	0.00194	1	09/08/07 03:48	SW846 8260B	7090348
Xylenes, total	ND		mg/kg	0.00485	1	09/08/07 03:48	SW846 8260B	7090348
Surr: 1,2-Dichloroethane-d4 (54-145%)	*104 %*					*09/08/07 03:48*	*SW846 8260B*	*7090348*
Surr: Dibromofluoromethane (67-129%)	*106 %*					*09/08/07 03:48*	*SW846 8260B*	*7090348*
Surr: Toluene-d8 (66-142%)	*98 %*					*09/08/07 03:48*	*SW846 8260B*	*7090348*
Surr: 4-Bromofluorobenzene (68-150%)	*96 %*					*09/08/07 03:48*	*SW846 8260B*	*7090348*

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-07 (DSSB-5-10 - Soil) - cont. Sampled: 08/27/07 12:30								
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Acenaphthylene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Anthracene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Benzo (a) anthracene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Benzo (a) pyrene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Benzo (b) fluoranthene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Benzo (g,h,i) perylene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Benzo (k) fluoranthene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Chrysene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Dibenz (a,h) anthracene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Fluoranthene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Fluorene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Indeno (1,2,3-cd) pyrene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
2-Methylnaphthalene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Naphthalene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Phenanthrene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Pyrene	ND		mg/kg	0.00326	1	09/03/07 07:30	SW846 8270CSIM	7085875
Surr: Nitrobenzene-d5 (34-87%)	*95 %*	*Z10*				*09/03/07 07:30*	*SW846 8270CSIM*	*7085875*
Surr: 2-Fluorobiphenyl (30-93%)	*81 %*					*09/03/07 07:30*	*SW846 8270CSIM*	*7085875*
Surr: Terphenyl-d14 (49-123%)	*95 %*					*09/03/07 07:30*	*SW846 8270CSIM*	*7085875*
Extractable Petroleum Hydrocarbons								
Diesel	ND		mg/kg	3.96	1	09/02/07 00:53	NWTPH-Dx	7085991
Motor Oil	ND		mg/kg	3.96	1	09/02/07 00:53	NWTPH-Dx	7085991
Surr: o-Terphenyl (50-150%)	*93 %*					*09/02/07 00:53*	*NWTPH-Dx*	*7085991*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	**28.5**		mg/kg	4.97	50	09/06/07 15:07	NWTPH-Gx	7090910
Surr: a,a,a-Trifluorotoluene (52-145%)	*93 %*					*09/06/07 15:07*	*NWTPH-Gx*	*7090910*
Sample ID: NQH3608-08 (DSSB-5 - Ground Water) Sampled: 08/27/07 12:30								
Dissolved Metals by EPA Method 6010B								
Lead	ND		mg/L	0.00500	1	09/06/07 00:33	SW846 6010B	7090249
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Ethyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Diisopropyl Ether	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Benzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	09/05/07 11:29	SW846 8260B	7090635
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
1,1-Dichloroethane	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Ethylbenzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Isopropylbenzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-08 (DSSB-5 - Ground Water) - cont. Sampled: 08/27/07 12:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
n-Propylbenzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Toluene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	09/05/07 11:29	SW846 8260B	7090635
Xylenes, total	ND		ug/L	3.00	1	09/05/07 11:29	SW846 8260B	7090635
Surr: 1,2-Dichloroethane-d4 (62-142%)	*100 %*					*09/05/07 11:29*	*SW846 8260B*	*7090635*
Surr: Dibromofluoromethane (78-123%)	*96 %*					*09/05/07 11:29*	*SW846 8260B*	*7090635*
Surr: Toluene-d8 (79-120%)	*98 %*					*09/05/07 11:29*	*SW846 8260B*	*7090635*
Surr: 4-Bromofluorobenzene (75-133%)	*91 %*					*09/05/07 11:29*	*SW846 8260B*	*7090635*
Polyaromatic Hydrocarbons by EPA 8270C SIM								
Acenaphthene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Acenaphthylene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Anthracene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Benzo (a) anthracene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Benzo (a) pyrene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Benzo (b) fluoranthene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Benzo (g,h,i) perylene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Benzo (k) fluoranthene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Chrysene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Dibenz (a,h) anthracene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Fluoranthene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Fluorene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Indeno (1,2,3-cd) pyrene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
2-Methylnaphthalene	**10.9**		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Naphthalene	**15.2**		ug/L	0.286	2	09/05/07 11:28	SW846 8270CSIM	7085854
Phenanthrene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Pyrene	ND		ug/L	0.143	1	09/05/07 01:58	SW846 8270CSIM	7085854
Surr: Nitrobenzene-d5 (24-125%)	*96 %*					*09/05/07 01:58*	*SW846 8270CSIM*	*7085854*
Surr: 2-Fluorobiphenyl (30-120%)	*93 %*					*09/05/07 01:58*	*SW846 8270CSIM*	*7085854*
Surr: Terphenyl-d14 (29-149%)	*89 %*					*09/05/07 01:58*	*SW846 8270CSIM*	*7085854*
Extractable Petroleum Hydrocarbons								
Diesel	ND		ug/L	95.2	1	09/02/07 00:08	NWTPH-Dx	7085915
Motor Oil	ND		ug/L	95.2	1	09/02/07 00:08	NWTPH-Dx	7085915
Surr: o-Terphenyl (50-150%)	*99 %*					*09/02/07 00:08*	*NWTPH-Dx*	*7085915*
Purgeable Petroleum Hydrocarbons								
GRO (C4-C12) NW	ND		ug/L	100	1	09/06/07 02:41	NWTPH-Gx	7090564
Surr: a,a,a-Trifluorotoluene (46-153%)	*86 %*					*09/06/07 02:41*	*NWTPH-Gx*	*7090564*

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQH3608-09 (Trip Blank - Ground Water) Sampled: 08/27/07 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Tert-Amyl Methyl Ether	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Ethyl tert-Butyl Ether	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Diisopropyl Ether	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Benzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Tertiary Butyl Alcohol	ND		ug/L	20.0	1	09/07/07 18:34	SW846 8260B	7091613
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
1,1-Dichloroethane	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Ethylbenzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Isopropylbenzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
n-Propylbenzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Toluene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	09/07/07 18:34	SW846 8260B	7091613
Xylenes, total	ND		ug/L	3.00	1	09/07/07 18:34	SW846 8260B	7091613
Surr: 1,2-Dichloroethane-d4 (62-142%)	*108 %*					*09/07/07 18:34*	*SW846 8260B*	*7091613*
Surr: Dibromofluoromethane (78-123%)	*100 %*					*09/07/07 18:34*	*SW846 8260B*	*7091613*
Surr: Toluene-d8 (79-120%)	*91 %*					*09/07/07 18:34*	*SW846 8260B*	*7091613*
Surr: 4-Bromofluorobenzene (75-133%)	*101 %*					*09/07/07 18:34*	*SW846 8260B*	*7091613*

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Dissolved Metals by EPA Method 6010B							
SW846 6010B	7090249	NQH3608-02	50.00	50.00	09/04/07 08:53	JMR	EPA 3010A / 6010 D
SW846 6010B	7090249	NQH3608-04	50.00	50.00	09/04/07 08:53	JMR	EPA 3010A / 6010 D
SW846 6010B	7090249	NQH3608-06	50.00	50.00	09/04/07 08:53	JMR	EPA 3010A / 6010 D
SW846 6010B	7090249	NQH3608-08	50.00	50.00	09/04/07 08:53	JMR	EPA 3010A / 6010 D
Extractable Petroleum Hydrocarbons							
NWTPH-Dx	7085991	NQH3608-01	25.73	1.00	08/31/07 15:25	CDJ	EPA 3550B
NWTPH-Dx	7085915	NQH3608-02	1045.00	1.00	08/31/07 12:45	AML	EPA 3510C
NWTPH-Dx	7085991	NQH3608-03	25.30	1.00	08/31/07 15:25	CDJ	EPA 3550B
NWTPH-Dx	7085915	NQH3608-04	1045.00	1.00	08/31/07 12:45	AML	EPA 3510C
NWTPH-Dx	7085991	NQH3608-05	25.60	1.00	08/31/07 15:25	CDJ	EPA 3550B
NWTPH-Dx	7085915	NQH3608-06	1040.00	1.00	08/31/07 12:45	AML	EPA 3510C
NWTPH-Dx	7085991	NQH3608-07	25.28	1.00	08/31/07 15:25	CDJ	EPA 3550B
NWTPH-Dx	7085915	NQH3608-08	1050.00	1.00	08/31/07 12:45	AML	EPA 3510C
Polyaromatic Hydrocarbons by EPA 8270C SIM							
SW846 8270CSIM	7085875	NQH3608-01	30.17	1.00	08/31/07 09:58	CDJ	EPA 3550B
SW846 8270CSIM	7085854	NQH3608-02	830.00	1.00	08/31/07 12:00	KYH	EPA 3510C
SW846 8270CSIM	7085875	NQH3608-03	30.85	1.00	08/31/07 09:58	CDJ	EPA 3550B
SW846 8270CSIM	7085854	NQH3608-04	1040.00	1.00	08/31/07 12:00	KYH	EPA 3510C
SW846 8270CSIM	7085854	NQH3608-04RE1	1040.00	1.00	08/31/07 12:00	KYH	EPA 3510C
SW846 8270CSIM	7085875	NQH3608-05	30.35	1.00	08/31/07 09:58	CDJ	EPA 3550B
SW846 8270CSIM	7085854	NQH3608-06	940.00	1.00	08/31/07 12:00	KYH	EPA 3510C
SW846 8270CSIM	7085875	NQH3608-07	30.60	1.00	08/31/07 09:58	CDJ	EPA 3550B
SW846 8270CSIM	7085854	NQH3608-08	700.00	1.00	08/31/07 12:00	KYH	EPA 3510C
SW846 8270CSIM	7085854	NQH3608-08RE1	700.00	1.00	08/31/07 12:00	KYH	EPA 3510C
Purgeable Petroleum Hydrocarbons							
NWTPH-Gx	7090910	NQH3608-01	5.17	5.00	08/31/07 09:01	NKN	EPA 5035A (GC)
NWTPH-Gx	7090910	NQH3608-03	5.05	5.00	08/31/07 09:05	NKN	EPA 5035A (GC)
NWTPH-Gx	7090910	NQH3608-05	5.01	5.00	08/31/07 09:06	NKN	EPA 5035A (GC)
NWTPH-Gx	7090910	NQH3608-07	5.03	5.00	08/31/07 09:07	NKN	EPA 5035A (GC)
NWTPH-Gx	7090910	NQH3608-07RE1	5.03	5.00	08/31/07 09:07	NKN	EPA 5035A (GC)
Total Metals by EPA Method 6010B							
SW846 6010B	7085913	NQH3608-01	0.50	100.00	08/31/07 08:14	LTB	EPA 3051 / 6010
SW846 6010B	7085913	NQH3608-03	0.52	100.00	08/31/07 08:14	LTB	EPA 3051 / 6010
SW846 6010B	7085913	NQH3608-05	0.50	100.00	08/31/07 08:14	LTB	EPA 3051 / 6010
SW846 6010B	7085913	NQH3608-07	0.50	100.00	08/31/07 08:14	LTB	EPA 3051 / 6010
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	7090348	NQH3608-01	5.23	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-01	5.23	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-03	5.04	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-03	5.04	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-05	5.09	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-05	5.09	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-07	5.15	5.00	08/31/07 12:47	NKN	EPA 5035
SW846 8260B	7090348	NQH3608-07	5.15	5.00	08/31/07 12:47	NKN	EPA 5035

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Total Metals by EPA Method 6010B						
7085913-BLK1						
Lead	<0.857		mg/kg	7085913	7085913-BLK1	09/07/07 05:57
Dissolved Metals by EPA Method 6010B						
7090249-BLK1						
Lead	<0.00300		mg/L	7090249	7090249-BLK1	09/05/07 23:28
Volatile Organic Compounds by EPA Method 8260B						
7090180-BLK1						
Benzene	<0.330		ug/L	7090180	7090180-BLK1	09/10/07 16:21
1,2-Dibromoethane (EDB)	<0.320		ug/L	7090180	7090180-BLK1	09/10/07 16:21
1,1-Dichloroethane	<0.600		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Ethylbenzene	<0.420		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Isopropylbenzene	<0.410		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Methyl tert-Butyl Ether	<0.310		ug/L	7090180	7090180-BLK1	09/10/07 16:21
n-Propylbenzene	<0.350		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Toluene	<0.420		ug/L	7090180	7090180-BLK1	09/10/07 16:21
1,3,5-Trimethylbenzene	<0.240		ug/L	7090180	7090180-BLK1	09/10/07 16:21
1,2,4-Trimethylbenzene	<0.350		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Xylenes, total	<0.450		ug/L	7090180	7090180-BLK1	09/10/07 16:21
Surrogate: 1,2-Dichloroethane-d4	95%			7090180	7090180-BLK1	09/10/07 16:21
Surrogate: Dibromofluoromethane	96%			7090180	7090180-BLK1	09/10/07 16:21
Surrogate: Toluene-d8	105%			7090180	7090180-BLK1	09/10/07 16:21
Surrogate: 4-Bromofluorobenzene	95%			7090180	7090180-BLK1	09/10/07 16:21
7090348-BLK1						
Tertiary Butyl Alcohol	<0.0131		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Diisopropyl Ether	<0.000460		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Ethyl tert-Butyl Ether	<0.000660		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Tert-Amyl Methyl Ether	<0.000570		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Benzene	<0.000600		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
1,2-Dibromoethane (EDB)	<0.000610		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
1,2-Dichloroethane	<0.000540		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Ethylbenzene	<0.000630		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Isopropylbenzene	<0.000550		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Methyl tert-Butyl Ether	<0.000530		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
n-Propylbenzene	<0.000670		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Toluene	<0.000660		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
1,3,5-Trimethylbenzene	<0.000510		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
1,2,4-Trimethylbenzene	<0.000590		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Xylenes, total	<0.00130		mg/kg	7090348	7090348-BLK1	09/07/07 22:08
Surrogate: 1,2-Dichloroethane-d4	99%			7090348	7090348-BLK1	09/07/07 22:08
Surrogate: Dibromofluoromethane	103%			7090348	7090348-BLK1	09/07/07 22:08

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7090348-BLK1						
Surrogate: Toluene-d8	99%			7090348	7090348-BLK1	09/07/07 22:08
Surrogate: 4-Bromofluorobenzene	95%			7090348	7090348-BLK1	09/07/07 22:08
7090635-BLK1						
Tert-Amyl Methyl Ether	<0.450		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Acetone	<7.41		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Ethyl tert-Butyl Ether	<0.440		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Acrylonitrile	<3.93		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Diisopropyl Ether	<0.440		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Benzene	<0.330		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Tertiary Butyl Alcohol	<4.61		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Bromobenzene	<0.450		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Bromochloromethane	<0.700		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Bromodichloromethane	<0.390		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Bromoform	<0.540		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Bromomethane	<0.420		ug/L	7090635	7090635-BLK1	09/05/07 03:14
2-Butanone	<3.06		ug/L	7090635	7090635-BLK1	09/05/07 03:14
tert-Butylbenzene	<0.400		ug/L	7090635	7090635-BLK1	09/05/07 03:14
n-Butylbenzene	<0.780		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Carbon disulfide	<0.230		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Carbon Tetrachloride	<0.410		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Chlorobenzene	<0.340		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Chlorodibromomethane	<0.480		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Butyl acetate	<4.49		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Chloroethane	<0.350		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Chloroform	<0.510		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Chloromethane	<0.310		ug/L	7090635	7090635-BLK1	09/05/07 03:14
2-Chlorotoluene	<0.210		ug/L	7090635	7090635-BLK1	09/05/07 03:14
4-Chlorotoluene	<0.410		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2-Dibromo-3-chloropropane	<1.01		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2-Dibromoethane (EDB)	<0.320		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Dibromomethane	<0.430		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2-Dichlorobenzene	<0.440		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,3-Dichlorobenzene	<0.410		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,4-Dichlorobenzene	<0.360		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Dichlorodifluoromethane	<0.290		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2-Dichloroethane	<0.460		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1-Dichloroethane	<0.600		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1-Dichloroethene	<0.270		ug/L	7090635	7090635-BLK1	09/05/07 03:14
trans-1,2-Dichloroethene	<0.200		ug/L	7090635	7090635-BLK1	09/05/07 03:14
cis-1,2-Dichloroethene	<0.540		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,3-Dichloropropane	<0.480		ug/L	7090635	7090635-BLK1	09/05/07 03:14

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7090635-BLK1						
2,2-Dichloropropane	<0.370		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2-Dichloropropane	<0.370		ug/L	7090635	7090635-BLK1	09/05/07 03:14
trans-1,3-Dichloropropene	<0.310		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1-Dichloropropene	<0.280		ug/L	7090635	7090635-BLK1	09/05/07 03:14
cis-1,3-Dichloropropene	<0.330		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Ethylbenzene	<0.420		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Hexachlorobutadiene	<0.660		ug/L	7090635	7090635-BLK1	09/05/07 03:14
2-Hexanone	<2.19		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Isopropylbenzene	<0.410		ug/L	7090635	7090635-BLK1	09/05/07 03:14
p-Isopropyltoluene	<0.320		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Methyl Acetate	<1.44		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Methyl tert-Butyl Ether	<0.310		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Methylene Chloride	<2.10		ug/L	7090635	7090635-BLK1	09/05/07 03:14
4-Methyl-2-pentanone	<4.15		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Naphthalene	<0.650		ug/L	7090635	7090635-BLK1	09/05/07 03:14
n-Propylbenzene	<0.350		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Ethyl Acetate	<3.39		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Styrene	<0.390		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1,2,2-Tetrachloroethane	<0.270		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1,1,2-Tetrachloroethane	<0.470		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Tetrachloroethene	<0.320		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Toluene	<0.420		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2,4-Trichlorobenzene	<0.620		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2,3-Trichlorobenzene	<0.620		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1,1-Trichloroethane	<0.350		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,1,2-Trichloroethane	<0.570		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Trichloroethene	<0.510		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Trichlorofluoromethane	<0.400		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2,3-Trichloropropane	<0.520		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,3,5-Trimethylbenzene	<0.240		ug/L	7090635	7090635-BLK1	09/05/07 03:14
1,2,4-Trimethylbenzene	<0.350		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Vinyl chloride	<0.260		ug/L	7090635	7090635-BLK1	09/05/07 03:14
o-Xylene	<0.370		ug/L	7090635	7090635-BLK1	09/05/07 03:14
m,p-Xylene	<0.450		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Xylenes, total	<0.450		ug/L	7090635	7090635-BLK1	09/05/07 03:14
Surrogate: 1,2-Dichloroethane-d4	105%			7090635	7090635-BLK1	09/05/07 03:14
Surrogate: Dibromofluoromethane	102%			7090635	7090635-BLK1	09/05/07 03:14
Surrogate: Toluene-d8	89%			7090635	7090635-BLK1	09/05/07 03:14
Surrogate: 4-Bromofluorobenzene	131%			7090635	7090635-BLK1	09/05/07 03:14
7091613-BLK1						
Tert-Amyl Methyl Ether	<0.450		ug/L	7091613	7091613-BLK1	09/07/07 15:58

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7091613-BLK1						
Acetone	<7.41		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Ethyl tert-Butyl Ether	<0.440		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Acrylonitrile	<3.93		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Diisopropyl Ether	<0.440		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Benzene	0.350		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Tertiary Butyl Alcohol	<4.61		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Bromobenzene	<0.450		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Bromochloromethane	<0.700		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Bromodichloromethane	<0.390		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Bromoform	<0.540		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Bromomethane	<0.420		ug/L	7091613	7091613-BLK1	09/07/07 15:58
2-Butanone	<3.06		ug/L	7091613	7091613-BLK1	09/07/07 15:58
tert-Butylbenzene	<0.400		ug/L	7091613	7091613-BLK1	09/07/07 15:58
n-Butylbenzene	<0.780		ug/L	7091613	7091613-BLK1	09/07/07 15:58
sec-Butylbenzene	<0.260		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Carbon disulfide	<0.230		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Carbon Tetrachloride	<0.410		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Chlorobenzene	<0.340		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Chlorodibromomethane	<0.480		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Chloroethane	<0.350		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Chloroform	<0.510		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Chloromethane	<0.310		ug/L	7091613	7091613-BLK1	09/07/07 15:58
2-Chlorotoluene	<0.210		ug/L	7091613	7091613-BLK1	09/07/07 15:58
4-Chlorotoluene	<0.410		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2-Dibromo-3-chloropropane	<1.01		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2-Dibromoethane (EDB)	<0.320		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Dibromomethane	<0.430		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2-Dichlorobenzene	<0.440		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,3-Dichlorobenzene	<0.410		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,4-Dichlorobenzene	<0.360		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Dichlorodifluoromethane	<0.290		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2-Dichloroethane	<0.460		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1-Dichloroethane	<0.600		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1-Dichloroethene	<0.270		ug/L	7091613	7091613-BLK1	09/07/07 15:58
trans-1,2-Dichloroethene	<0.200		ug/L	7091613	7091613-BLK1	09/07/07 15:58
cis-1,2-Dichloroethene	<0.540		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,3-Dichloropropane	<0.480		ug/L	7091613	7091613-BLK1	09/07/07 15:58
2,2-Dichloropropane	<0.370		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2-Dichloropropane	<0.370		ug/L	7091613	7091613-BLK1	09/07/07 15:58
trans-1,3-Dichloropropene	<0.310		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1-Dichloropropene	<0.280		ug/L	7091613	7091613-BLK1	09/07/07 15:58
cis-1,3-Dichloropropene	<0.330		ug/L	7091613	7091613-BLK1	09/07/07 15:58

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7091613-BLK1						
Ethylbenzene	<0.420		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Hexachlorobutadiene	<0.660		ug/L	7091613	7091613-BLK1	09/07/07 15:58
2-Hexanone	<2.19		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Isopropylbenzene	<0.410		ug/L	7091613	7091613-BLK1	09/07/07 15:58
p-Isopropyltoluene	<0.320		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Methyl tert-Butyl Ether	<0.310		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Methylene Chloride	2.19		ug/L	7091613	7091613-BLK1	09/07/07 15:58
4-Methyl-2-pentanone	<4.15		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Naphthalene	<0.650		ug/L	7091613	7091613-BLK1	09/07/07 15:58
n-Propylbenzene	<0.350		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Styrene	<0.390		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1,2,2-Tetrachloroethane	<0.270		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1,1,2-Tetrachloroethane	<0.470		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Tetrachloroethene	<0.320		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Toluene	<0.420		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2,4-Trichlorobenzene	<0.620		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2,3-Trichlorobenzene	<0.620		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1,1-Trichloroethane	<0.350		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,1,2-Trichloroethane	<0.570		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Trichloroethene	<0.510		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Trichlorofluoromethane	<0.400		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2,3-Trichloropropane	<0.520		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,3,5-Trimethylbenzene	<0.240		ug/L	7091613	7091613-BLK1	09/07/07 15:58
1,2,4-Trimethylbenzene	<0.350		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Vinyl chloride	<0.260		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Xylenes, total	<0.450		ug/L	7091613	7091613-BLK1	09/07/07 15:58
Surrogate: 1,2-Dichloroethane-d4	113%			7091613	7091613-BLK1	09/07/07 15:58
Surrogate: Dibromofluoromethane	106%			7091613	7091613-BLK1	09/07/07 15:58
Surrogate: Toluene-d8	91%			7091613	7091613-BLK1	09/07/07 15:58
Surrogate: 4-Bromofluorobenzene	101%			7091613	7091613-BLK1	09/07/07 15:58
Polyaromatic Hydrocarbons by EPA 8270C SIM						
7085854-BLK1						
Acenaphthene	<0.0420		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Acenaphthylene	<0.0260		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Anthracene	<0.0420		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Benzo (a) anthracene	<0.0340		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Benzo (a) pyrene	<0.0260		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Benzo (b) fluoranthene	<0.0250		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Benzo (g,h,i) perylene	<0.0250		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Benzo (k) fluoranthene	<0.0250		ug/L	7085854	7085854-BLK1	09/04/07 18:15

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM						
7085854-BLK1						
Chrysene	<0.0350		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Dibenz (a,h) anthracene	<0.0310		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Fluoranthene	<0.0360		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Fluorene	<0.0360		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Indeno (1,2,3-cd) pyrene	<0.0250		ug/L	7085854	7085854-BLK1	09/04/07 18:15
1-Methylnaphthalene	<0.0430		ug/L	7085854	7085854-BLK1	09/04/07 18:15
2-Methylnaphthalene	<0.0810		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Naphthalene	<0.0390		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Phenanthrene	<0.0610		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Pyrene	<0.0340		ug/L	7085854	7085854-BLK1	09/04/07 18:15
Surrogate: Nitrobenzene-d5	107%			7085854	7085854-BLK1	09/04/07 18:15
Surrogate: 2-Fluorobiphenyl	85%			7085854	7085854-BLK1	09/04/07 18:15
Surrogate: Terphenyl-d14	102%			7085854	7085854-BLK1	09/04/07 18:15
7085875-BLK1						
Acenaphthene	<0.00112		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Acenaphthylene	<0.00153		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Anthracene	<0.00287		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Benzo (a) anthracene	<0.00186		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Benzo (a) pyrene	<0.00264		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Benzo (b) fluoranthene	<0.00165		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Benzo (g,h,i) perylene	<0.00210		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Benzo (k) fluoranthene	<0.00159		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Chrysene	<0.00159		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Dibenz (a,h) anthracene	<0.00275		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Fluoranthene	<0.00145		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Fluorene	<0.00132		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Indeno (1,2,3-cd) pyrene	<0.00287		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
1-Methylnaphthalene	<0.00121		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
2-Methylnaphthalene	<0.00121		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Naphthalene	<0.00134		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Phenanthrene	<0.00102		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Pyrene	<0.00159		mg/kg	7085875	7085875-BLK1	09/02/07 23:29
Surrogate: Nitrobenzene-d5	96%	Z10		7085875	7085875-BLK1	09/02/07 23:29
Surrogate: 2-Fluorobiphenyl	83%			7085875	7085875-BLK1	09/02/07 23:29
Surrogate: Terphenyl-d14	102%			7085875	7085875-BLK1	09/02/07 23:29
Extractable Petroleum Hydrocarbons						
7085915-BLK1						
Diesel	<37.0		ug/L	7085915	7085915-BLK1	09/01/07 21:50
Motor Oil	<37.0		ug/L	7085915	7085915-BLK1	09/01/07 21:50
Surrogate: o-Terphenyl	98%			7085915	7085915-BLK1	09/01/07 21:50

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Extractable Petroleum Hydrocarbons						
7085991-BLK1						
Diesel	<2.00		mg/kg	7085991	7085991-BLK1	09/03/07 12:20
Motor Oil	<2.00		mg/kg	7085991	7085991-BLK1	09/03/07 12:20
Surrogate: o-Terphenyl	91%			7085991	7085991-BLK1	09/03/07 12:20
Purgeable Petroleum Hydrocarbons						
7090564-BLK1						
GRO (C4-C12) NW	68.2		ug/L	7090564	7090564-BLK1	09/05/07 21:59
Surrogate: a,a,a-Trifluorotoluene	86%			7090564	7090564-BLK1	09/05/07 21:59
7090564-BLK2						
GRO (C4-C12) NW	68.1		ug/L	7090564	7090564-BLK2	09/06/07 04:33
Surrogate: a,a,a-Trifluorotoluene	87%			7090564	7090564-BLK2	09/06/07 04:33
7090910-BLK1						
GRO (C4-C12) NW	<0.0180		mg/kg	7090910	7090910-BLK1	09/06/07 03:24
Surrogate: a,a,a-Trifluorotoluene	96%			7090910	7090910-BLK1	09/06/07 03:24
7090910-BLK2						
GRO (C4-C12) NW	<0.0180		mg/kg	7090910	7090910-BLK2	09/06/07 03:45
Surrogate: a,a,a-Trifluorotoluene	93%			7090910	7090910-BLK2	09/06/07 03:45

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Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons									
7090910-DUP1									
GRO (C4-C12) NW	ND	ND		mg/kg		37	7090910	NQH3399-03	09/06/07 09:03
Surrogate: a,a,a-Trifluorotoluene		28.4		ug/L			7090910	NQH3399-03	09/06/07 09:03

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
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	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Total Metals by EPA Method 6010B								
7085913-BS1								
Lead	100	96.6		mg/kg	97%	80 - 120	7085913	09/07/07 06:14
Dissolved Metals by EPA Method 6010B								
7090249-BS1								
Lead	0.0500	0.0449		mg/L	90%	80 - 120	7090249	09/05/07 23:32
Volatile Organic Compounds by EPA Method 8260B								
7090180-BS1								
Benzene	50.0	45.2		ug/L	90%	78 - 125	7090180	09/10/07 14:40
1,2-Dibromoethane (EDB)	50.0	53.2		ug/L	106%	80 - 132	7090180	09/10/07 14:40
1,1-Dichloroethane	50.0	47.2		ug/L	94%	79 - 120	7090180	09/10/07 14:40
Ethylbenzene	50.0	44.4		ug/L	89%	73 - 134	7090180	09/10/07 14:40
Isopropylbenzene	50.0	41.0		ug/L	82%	74 - 121	7090180	09/10/07 14:40
Methyl tert-Butyl Ether	50.0	48.5		ug/L	97%	69 - 122	7090180	09/10/07 14:40
n-Propylbenzene	50.0	50.8		ug/L	102%	76 - 133	7090180	09/10/07 14:40
Toluene	50.0	51.3		ug/L	103%	78 - 122	7090180	09/10/07 14:40
1,3,5-Trimethylbenzene	50.0	49.3		ug/L	99%	72 - 136	7090180	09/10/07 14:40
1,2,4-Trimethylbenzene	50.0	49.1		ug/L	98%	73 - 134	7090180	09/10/07 14:40
Xylenes, total	150	127		ug/L	85%	79 - 130	7090180	09/10/07 14:40
Surrogate: 1,2-Dichloroethane-d4	25.0	23.8			95%	62 - 142	7090180	09/10/07 14:40
Surrogate: Dibromofluoromethane	25.0	23.8			95%	78 - 123	7090180	09/10/07 14:40
Surrogate: Toluene-d8	25.0	26.1			104%	79 - 120	7090180	09/10/07 14:40
Surrogate: 4-Bromofluorobenzene	25.0	24.5			98%	75 - 133	7090180	09/10/07 14:40
7090348-BS1								
Tertiary Butyl Alcohol	500	445		ug/kg	89%	22 - 159	7090348	09/07/07 21:06
Diisopropyl Ether	50.0	49.3		ug/kg	99%	70 - 122	7090348	09/07/07 21:06
Ethyl tert-Butyl Ether	50.0	50.7		ug/kg	101%	66 - 126	7090348	09/07/07 21:06
Tert-Amyl Methyl Ether	50.0	50.4		ug/kg	101%	67 - 130	7090348	09/07/07 21:06
Benzene	50.0	54.6		ug/kg	109%	78 - 123	7090348	09/07/07 21:06
1,2-Dibromoethane (EDB)	50.0	55.1		ug/kg	110%	79 - 129	7090348	09/07/07 21:06
1,2-Dichloroethane	50.0	54.7		ug/kg	109%	73 - 131	7090348	09/07/07 21:06
Ethylbenzene	50.0	54.3		ug/kg	109%	78 - 127	7090348	09/07/07 21:06
Isopropylbenzene	50.0	53.4		ug/kg	107%	73 - 123	7090348	09/07/07 21:06
Methyl tert-Butyl Ether	50.0	49.9		ug/kg	100%	62 - 129	7090348	09/07/07 21:06
n-Propylbenzene	50.0	50.5		ug/kg	101%	71 - 135	7090348	09/07/07 21:06
Toluene	50.0	54.4		ug/kg	109%	77 - 124	7090348	09/07/07 21:06
1,3,5-Trimethylbenzene	50.0	53.9		ug/kg	108%	74 - 133	7090348	09/07/07 21:06
1,2,4-Trimethylbenzene	50.0	51.0		ug/kg	102%	72 - 132	7090348	09/07/07 21:06
Xylenes, total	150	161		ug/kg	108%	77 - 128	7090348	09/07/07 21:06
Surrogate: 1,2-Dichloroethane-d4	50.0	48.9			98%	54 - 145	7090348	09/07/07 21:06
Surrogate: Dibromofluoromethane	50.0	52.1			104%	67 - 129	7090348	09/07/07 21:06

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7090348-BS1								
Surrogate: Toluene-d8	50.0	49.8			100%	66 - 142	7090348	09/07/07 21:06
Surrogate: 4-Bromofluorobenzene	50.0	48.6			97%	68 - 150	7090348	09/07/07 21:06
7090635-BS1								
Tert-Amyl Methyl Ether	50.0	47.0		ug/L	94%	63 - 133	7090635	09/05/07 00:46
Acetone	250	253		ug/L	101%	63 - 147	7090635	09/05/07 00:46
Ethyl tert-Butyl Ether	50.0	46.2		ug/L	92%	65 - 126	7090635	09/05/07 00:46
Acrylonitrile	250	245		ug/L	98%	76 - 125	7090635	09/05/07 00:46
Diisopropyl Ether	50.0	46.8		ug/L	94%	74 - 120	7090635	09/05/07 00:46
Benzene	50.0	51.5		ug/L	103%	78 - 125	7090635	09/05/07 00:46
Tertiary Butyl Alcohol	500	730		ug/L	146%	33 - 181	7090635	09/05/07 00:46
Bromobenzene	50.0	49.7		ug/L	99%	71 - 142	7090635	09/05/07 00:46
Bromochloromethane	50.0	45.6		ug/L	91%	76 - 129	7090635	09/05/07 00:46
Bromodichloromethane	50.0	55.7		ug/L	111%	71 - 134	7090635	09/05/07 00:46
Bromoform	50.0	51.2		ug/L	102%	49 - 129	7090635	09/05/07 00:46
Bromomethane	50.0	50.7		ug/L	101%	42 - 154	7090635	09/05/07 00:46
2-Butanone	250	230		ug/L	92%	74 - 130	7090635	09/05/07 00:46
tert-Butylbenzene	50.0	59.2		ug/L	118%	79 - 128	7090635	09/05/07 00:46
n-Butylbenzene	50.0	53.6		ug/L	107%	68 - 138	7090635	09/05/07 00:46
Carbon disulfide	50.0	55.2		ug/L	110%	65 - 122	7090635	09/05/07 00:46
Carbon Tetrachloride	50.0	63.6		ug/L	127%	62 - 142	7090635	09/05/07 00:46
Chlorobenzene	50.0	54.0		ug/L	108%	82 - 125	7090635	09/05/07 00:46
Chlorodibromomethane	50.0	52.0		ug/L	104%	67 - 135	7090635	09/05/07 00:46
Chloroethane	50.0	46.5		ug/L	93%	57 - 138	7090635	09/05/07 00:46
Chloroform	50.0	53.6		ug/L	107%	75 - 122	7090635	09/05/07 00:46
Chloromethane	50.0	30.1		ug/L	60%	31 - 147	7090635	09/05/07 00:46
2-Chlorotoluene	50.0	54.0		ug/L	108%	74 - 135	7090635	09/05/07 00:46
4-Chlorotoluene	50.0	57.3		ug/L	115%	74 - 133	7090635	09/05/07 00:46
1,2-Dibromo-3-chloropropane	50.0	36.7		ug/L	73%	45 - 140	7090635	09/05/07 00:46
1,2-Dibromoethane (EDB)	50.0	56.2		ug/L	112%	80 - 132	7090635	09/05/07 00:46
Dibromomethane	50.0	51.0		ug/L	102%	69 - 132	7090635	09/05/07 00:46
1,2-Dichlorobenzene	50.0	56.4		ug/L	113%	82 - 133	7090635	09/05/07 00:46
1,3-Dichlorobenzene	50.0	58.2		ug/L	116%	77 - 132	7090635	09/05/07 00:46
1,4-Dichlorobenzene	50.0	56.8		ug/L	114%	79 - 125	7090635	09/05/07 00:46
Dichlorodifluoromethane	50.0	22.8		ug/L	46%	34 - 120	7090635	09/05/07 00:46
1,2-Dichloroethane	50.0	56.3		ug/L	113%	64 - 134	7090635	09/05/07 00:46
1,1-Dichloroethane	50.0	58.4		ug/L	117%	79 - 120	7090635	09/05/07 00:46
1,1-Dichloroethene	50.0	57.7		ug/L	115%	71 - 123	7090635	09/05/07 00:46
trans-1,2-Dichloroethene	50.0	61.1		ug/L	122%	74 - 127	7090635	09/05/07 00:46
cis-1,2-Dichloroethene	50.0	52.0		ug/L	104%	71 - 126	7090635	09/05/07 00:46
1,3-Dichloropropane	50.0	55.7		ug/L	111%	80 - 128	7090635	09/05/07 00:46
2,2-Dichloropropane	50.0	50.1		ug/L	100%	25 - 156	7090635	09/05/07 00:46

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7090635-BS1								
1,2-Dichloropropane	50.0	50.0		ug/L	100%	73 - 120	7090635	09/05/07 00:46
trans-1,3-Dichloropropene	50.0	52.3		ug/L	105%	61 - 124	7090635	09/05/07 00:46
1,1-Dichloropropene	50.0	58.3		ug/L	117%	79 - 138	7090635	09/05/07 00:46
cis-1,3-Dichloropropene	50.0	59.3		ug/L	119%	70 - 135	7090635	09/05/07 00:46
Ethylbenzene	50.0	55.3		ug/L	111%	73 - 134	7090635	09/05/07 00:46
Hexachlorobutadiene	50.0	64.5		ug/L	129%	58 - 145	7090635	09/05/07 00:46
2-Hexanone	250	233		ug/L	93%	72 - 136	7090635	09/05/07 00:46
Isopropylbenzene	50.0	58.4		ug/L	117%	74 - 121	7090635	09/05/07 00:46
p-Isopropyltoluene	50.0	52.3		ug/L	105%	70 - 133	7090635	09/05/07 00:46
Methyl Acetate	50.0	37.4		ug/L	75%	58 - 185	7090635	09/05/07 00:46
Methyl tert-Butyl Ether	50.0	52.4		ug/L	105%	69 - 122	7090635	09/05/07 00:46
Methylene Chloride	50.0	53.4		ug/L	107%	75 - 127	7090635	09/05/07 00:46
4-Methyl-2-pentanone	250	241		ug/L	96%	77 - 132	7090635	09/05/07 00:46
Naphthalene	50.0	34.8		ug/L	70%	65 - 145	7090635	09/05/07 00:46
n-Propylbenzene	50.0	56.3		ug/L	113%	76 - 133	7090635	09/05/07 00:46
Styrene	50.0	68.6		ug/L	137%	80 - 145	7090635	09/05/07 00:46
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L	93%	71 - 137	7090635	09/05/07 00:46
1,1,1,2-Tetrachloroethane	50.0	61.8		ug/L	124%	72 - 136	7090635	09/05/07 00:46
Tetrachloroethene	50.0	58.4		ug/L	117%	70 - 131	7090635	09/05/07 00:46
Toluene	50.0	55.2		ug/L	110%	78 - 122	7090635	09/05/07 00:46
1,2,4-Trichlorobenzene	50.0	45.6		ug/L	91%	63 - 140	7090635	09/05/07 00:46
1,2,3-Trichlorobenzene	50.0	44.9		ug/L	90%	60 - 144	7090635	09/05/07 00:46
1,1,1-Trichloroethane	50.0	57.4		ug/L	115%	69 - 128	7090635	09/05/07 00:46
1,1,2-Trichloroethane	50.0	56.0		ug/L	112%	81 - 127	7090635	09/05/07 00:46
Trichloroethene	50.0	55.9		ug/L	112%	73 - 133	7090635	09/05/07 00:46
Trichlorofluoromethane	50.0	50.4		ug/L	101%	49 - 139	7090635	09/05/07 00:46
1,2,3-Trichloropropane	50.0	45.5		ug/L	91%	52 - 151	7090635	09/05/07 00:46
1,3,5-Trimethylbenzene	50.0	57.7		ug/L	115%	72 - 136	7090635	09/05/07 00:46
1,2,4-Trimethylbenzene	50.0	57.0		ug/L	114%	73 - 134	7090635	09/05/07 00:46
Vinyl chloride	50.0	43.8		ug/L	88%	54 - 137	7090635	09/05/07 00:46
o-Xylene	50.0	59.1		ug/L	118%	79 - 130	7090635	09/05/07 00:46
m,p-Xylene	100	115		ug/L	115%	79 - 131	7090635	09/05/07 00:46
Xylenes, total	150	174		ug/L	116%	79 - 130	7090635	09/05/07 00:46
Surrogate: Dibromofluoromethane	25.0	23.4			94%	78 - 123	7090635	09/05/07 00:46
Surrogate: Toluene-d8	25.0	25.0			100%	79 - 120	7090635	09/05/07 00:46
7090635-BS2								
Butyl acetate	500	410		ug/L	82%	12 - 172	7090635	09/05/07 01:36
Ethyl Acetate	500	526		ug/L	105%	12 - 172	7090635	09/05/07 01:36
Surrogate: 1,2-Dichloroethane-d4	25.0	26.4			105%	62 - 142	7090635	09/05/07 01:36
Surrogate: Dibromofluoromethane	25.0	26.0			104%	78 - 123	7090635	09/05/07 01:36
Surrogate: Toluene-d8	25.0	18.6	Z10		75%	79 - 120	7090635	09/05/07 01:36

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7090635-BS2								
Surrogate: 4-Bromofluorobenzene	25.0	23.6			95%	75 - 133	7090635	09/05/07 01:36
7091613-BS1								
Tert-Amyl Methyl Ether	50.0	52.7		ug/L	105%	63 - 133	7091613	09/07/07 14:13
Acetone	250	253		ug/L	101%	63 - 147	7091613	09/07/07 14:13
Ethyl tert-Butyl Ether	50.0	52.6		ug/L	105%	65 - 126	7091613	09/07/07 14:13
Acrylonitrile	250	258		ug/L	103%	76 - 125	7091613	09/07/07 14:13
Diisopropyl Ether	50.0	49.7		ug/L	99%	74 - 120	7091613	09/07/07 14:13
Benzene	50.0	51.1		ug/L	102%	78 - 125	7091613	09/07/07 14:13
Tertiary Butyl Alcohol	500	538		ug/L	108%	33 - 181	7091613	09/07/07 14:13
Bromobenzene	50.0	47.2		ug/L	94%	71 - 142	7091613	09/07/07 14:13
Bromochloromethane	50.0	49.2		ug/L	98%	76 - 129	7091613	09/07/07 14:13
Bromodichloromethane	50.0	59.4		ug/L	119%	71 - 134	7091613	09/07/07 14:13
Bromoform	50.0	56.7		ug/L	113%	49 - 129	7091613	09/07/07 14:13
Bromomethane	50.0	44.8		ug/L	90%	42 - 154	7091613	09/07/07 14:13
2-Butanone	250	262		ug/L	105%	74 - 130	7091613	09/07/07 14:13
tert-Butylbenzene	50.0	52.0		ug/L	104%	79 - 128	7091613	09/07/07 14:13
n-Butylbenzene	50.0	49.1		ug/L	98%	68 - 138	7091613	09/07/07 14:13
sec-Butylbenzene	50.0	54.1		ug/L	108%	78 - 129	7091613	09/07/07 14:13
Carbon disulfide	50.0	52.9		ug/L	106%	65 - 122	7091613	09/07/07 14:13
Carbon Tetrachloride	50.0	58.0		ug/L	116%	62 - 142	7091613	09/07/07 14:13
Chlorobenzene	50.0	51.8		ug/L	104%	82 - 125	7091613	09/07/07 14:13
Chlorodibromomethane	50.0	50.2		ug/L	100%	67 - 135	7091613	09/07/07 14:13
Chloroethane	50.0	44.0		ug/L	88%	57 - 138	7091613	09/07/07 14:13
Chloroform	50.0	51.5		ug/L	103%	75 - 122	7091613	09/07/07 14:13
Chloromethane	50.0	34.6		ug/L	69%	31 - 147	7091613	09/07/07 14:13
2-Chlorotoluene	50.0	46.2		ug/L	92%	74 - 135	7091613	09/07/07 14:13
4-Chlorotoluene	50.0	46.2		ug/L	92%	74 - 133	7091613	09/07/07 14:13
1,2-Dibromo-3-chloropropane	50.0	51.5		ug/L	103%	45 - 140	7091613	09/07/07 14:13
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L	100%	80 - 132	7091613	09/07/07 14:13
Dibromomethane	50.0	53.5		ug/L	107%	69 - 132	7091613	09/07/07 14:13
1,2-Dichlorobenzene	50.0	46.6		ug/L	93%	82 - 133	7091613	09/07/07 14:13
1,3-Dichlorobenzene	50.0	47.4		ug/L	95%	77 - 132	7091613	09/07/07 14:13
1,4-Dichlorobenzene	50.0	48.9		ug/L	98%	79 - 125	7091613	09/07/07 14:13
Dichlorodifluoromethane	50.0	32.4		ug/L	65%	34 - 120	7091613	09/07/07 14:13
1,2-Dichloroethane	50.0	57.5		ug/L	115%	64 - 134	7091613	09/07/07 14:13
1,1-Dichloroethane	50.0	51.6		ug/L	103%	79 - 120	7091613	09/07/07 14:13
1,1-Dichloroethene	50.0	55.4		ug/L	111%	71 - 123	7091613	09/07/07 14:13
trans-1,2-Dichloroethene	50.0	54.1		ug/L	108%	74 - 127	7091613	09/07/07 14:13
cis-1,2-Dichloroethene	50.0	52.7		ug/L	105%	71 - 126	7091613	09/07/07 14:13
1,3-Dichloropropane	50.0	50.4		ug/L	101%	80 - 128	7091613	09/07/07 14:13
2,2-Dichloropropane	50.0	57.3		ug/L	115%	25 - 156	7091613	09/07/07 14:13

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7091613-BS1								
1,2-Dichloropropane	50.0	44.9		ug/L	90%	73 - 120	7091613	09/07/07 14:13
trans-1,3-Dichloropropene	50.0	56.1		ug/L	112%	61 - 124	7091613	09/07/07 14:13
1,1-Dichloropropene	50.0	51.8		ug/L	104%	79 - 138	7091613	09/07/07 14:13
cis-1,3-Dichloropropene	50.0	52.3		ug/L	105%	70 - 135	7091613	09/07/07 14:13
Ethylbenzene	50.0	51.8		ug/L	104%	73 - 134	7091613	09/07/07 14:13
Hexachlorobutadiene	50.0	55.8		ug/L	112%	58 - 145	7091613	09/07/07 14:13
2-Hexanone	250	225		ug/L	90%	72 - 136	7091613	09/07/07 14:13
Isopropylbenzene	50.0	49.9		ug/L	100%	74 - 121	7091613	09/07/07 14:13
p-Isopropyltoluene	50.0	53.2		ug/L	106%	70 - 133	7091613	09/07/07 14:13
Methyl tert-Butyl Ether	50.0	50.3		ug/L	101%	69 - 122	7091613	09/07/07 14:13
Methylene Chloride	50.0	56.4		ug/L	113%	75 - 127	7091613	09/07/07 14:13
4-Methyl-2-pentanone	250	233		ug/L	93%	77 - 132	7091613	09/07/07 14:13
Naphthalene	50.0	55.5		ug/L	111%	65 - 145	7091613	09/07/07 14:13
n-Propylbenzene	50.0	47.5		ug/L	95%	76 - 133	7091613	09/07/07 14:13
Styrene	50.0	55.8		ug/L	112%	80 - 145	7091613	09/07/07 14:13
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L	93%	71 - 137	7091613	09/07/07 14:13
1,1,1,2-Tetrachloroethane	50.0	60.6		ug/L	121%	72 - 136	7091613	09/07/07 14:13
Tetrachloroethene	50.0	50.4		ug/L	101%	70 - 131	7091613	09/07/07 14:13
Toluene	50.0	50.1		ug/L	100%	78 - 122	7091613	09/07/07 14:13
1,2,4-Trichlorobenzene	50.0	47.6		ug/L	95%	63 - 140	7091613	09/07/07 14:13
1,2,3-Trichlorobenzene	50.0	52.1		ug/L	104%	60 - 144	7091613	09/07/07 14:13
1,1,1-Trichloroethane	50.0	58.0		ug/L	116%	69 - 128	7091613	09/07/07 14:13
1,1,2-Trichloroethane	50.0	52.0		ug/L	104%	81 - 127	7091613	09/07/07 14:13
Trichloroethene	50.0	52.4		ug/L	105%	73 - 133	7091613	09/07/07 14:13
Trichlorofluoromethane	50.0	57.7		ug/L	115%	49 - 139	7091613	09/07/07 14:13
1,2,3-Trichloropropane	50.0	45.1		ug/L	90%	52 - 151	7091613	09/07/07 14:13
1,3,5-Trimethylbenzene	50.0	48.3		ug/L	97%	72 - 136	7091613	09/07/07 14:13
1,2,4-Trimethylbenzene	50.0	50.5		ug/L	101%	73 - 134	7091613	09/07/07 14:13
Vinyl chloride	50.0	40.8		ug/L	82%	54 - 137	7091613	09/07/07 14:13
Xylenes, total	150	157		ug/L	105%	79 - 130	7091613	09/07/07 14:13
Surrogate: 1,2-Dichloroethane-d4	25.0	24.5			98%	62 - 142	7091613	09/07/07 14:13
Surrogate: Dibromofluoromethane	25.0	23.5			94%	78 - 123	7091613	09/07/07 14:13
Surrogate: Toluene-d8	25.0	22.8			91%	79 - 120	7091613	09/07/07 14:13
Surrogate: 4-Bromofluorobenzene	25.0	22.1			88%	75 - 133	7091613	09/07/07 14:13
Polyaromatic Hydrocarbons by EPA 8270C SIM								
7085854-BS1								
Acenaphthene	1.00	0.890	MNR1	ug/L	89%	48 - 133	7085854	09/04/07 18:36
Acenaphthylene	1.00	0.960	MNR1	ug/L	96%	49 - 139	7085854	09/04/07 18:36
Anthracene	1.00	0.940	MNR1	ug/L	94%	55 - 146	7085854	09/04/07 18:36
Benzo (a) anthracene	1.00	0.990	MNR1	ug/L	99%	54 - 143	7085854	09/04/07 18:36

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM								
7085854-BS1								
Benzo (a) pyrene	1.00	0.860	MNR1	ug/L	86%	47 - 140	7085854	09/04/07 18:36
Benzo (b) fluoranthene	1.00	1.18	MNR1	ug/L	118%	56 - 142	7085854	09/04/07 18:36
Benzo (g,h,i) perylene	1.00	1.15	MNR1	ug/L	115%	39 - 142	7085854	09/04/07 18:36
Benzo (k) fluoranthene	1.00	0.750	MNR1	ug/L	75%	54 - 147	7085854	09/04/07 18:36
Chrysene	1.00	0.870	MNR1	ug/L	87%	60 - 145	7085854	09/04/07 18:36
Dibenz (a,h) anthracene	1.00	1.14	MNR1	ug/L	114%	35 - 146	7085854	09/04/07 18:36
Fluoranthene	1.00	0.970	MNR1	ug/L	97%	56 - 135	7085854	09/04/07 18:36
Fluorene	1.00	0.960	MNR1	ug/L	96%	52 - 141	7085854	09/04/07 18:36
Indeno (1,2,3-cd) pyrene	1.00	1.03	MNR1	ug/L	103%	41 - 139	7085854	09/04/07 18:36
1-Methylnaphthalene	1.01	0.870	MNR1	ug/L	86%	42 - 130	7085854	09/04/07 18:36
2-Methylnaphthalene	1.00	0.910	MNR1	ug/L	91%	46 - 136	7085854	09/04/07 18:36
Naphthalene	1.00	0.860	MNR1	ug/L	86%	47 - 129	7085854	09/04/07 18:36
Phenanthrene	1.00	0.850	MNR1	ug/L	85%	50 - 133	7085854	09/04/07 18:36
Pyrene	1.00	1.02	MNR1	ug/L	102%	56 - 140	7085854	09/04/07 18:36
Surrogate: Nitrobenzene-d5	1.00	1.12			112%	24 - 125	7085854	09/04/07 18:36
Surrogate: 2-Fluorobiphenyl	1.00	0.900			90%	30 - 120	7085854	09/04/07 18:36
Surrogate: Terphenyl-d14	1.00	1.05			105%	29 - 149	7085854	09/04/07 18:36
7085875-BS1								
Acenaphthene	0.0333	0.0313		mg/kg	94%	42 - 114	7085875	09/01/07 18:07
Acenaphthylene	0.0333	0.0340		mg/kg	102%	51 - 118	7085875	09/01/07 18:07
Anthracene	0.0333	0.0340		mg/kg	102%	49 - 139	7085875	09/01/07 18:07
Benzo (a) anthracene	0.0333	0.0370		mg/kg	111%	56 - 122	7085875	09/01/07 18:07
Benzo (a) pyrene	0.0333	0.0313		mg/kg	94%	56 - 113	7085875	09/01/07 18:07
Benzo (b) fluoranthene	0.0333	0.0270		mg/kg	81%	60 - 123	7085875	09/01/07 18:07
Benzo (g,h,i) perylene	0.0333	0.0377		mg/kg	113%	48 - 126	7085875	09/01/07 18:07
Benzo (k) fluoranthene	0.0333	0.0290		mg/kg	87%	61 - 124	7085875	09/01/07 18:07
Chrysene	0.0333	0.0327		mg/kg	98%	60 - 127	7085875	09/01/07 18:07
Dibenz (a,h) anthracene	0.0333	0.0380		mg/kg	114%	54 - 119	7085875	09/01/07 18:07
Fluoranthene	0.0333	0.0387		mg/kg	116%	51 - 118	7085875	09/01/07 18:07
Fluorene	0.0333	0.0340		mg/kg	102%	46 - 118	7085875	09/01/07 18:07
Indeno (1,2,3-cd) pyrene	0.0333	0.0333		mg/kg	100%	40 - 125	7085875	09/01/07 18:07
1-Methylnaphthalene	0.0337	0.0300		mg/kg	89%	49 - 110	7085875	09/01/07 18:07
2-Methylnaphthalene	0.0333	0.0323		mg/kg	97%	55 - 114	7085875	09/01/07 18:07
Naphthalene	0.0333	0.0297		mg/kg	89%	36 - 106	7085875	09/01/07 18:07
Phenanthrene	0.0333	0.0320		mg/kg	96%	47 - 118	7085875	09/01/07 18:07
Pyrene	0.0333	0.0370		mg/kg	111%	48 - 124	7085875	09/01/07 18:07
Surrogate: Nitrobenzene-d5	0.0333	0.0327	Z10		98%	34 - 87	7085875	09/01/07 18:07
Surrogate: 2-Fluorobiphenyl	0.0333	0.0307			92%	30 - 93	7085875	09/01/07 18:07
Surrogate: Terphenyl-d14	0.0333	0.0333			100%	49 - 123	7085875	09/01/07 18:07
Extractable Petroleum Hydrocarbons								

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons								
7085915-BS1								
Diesel	1000	747		ug/L	75%	35 - 122	7085915	09/01/07 22:07
Surrogate: o-Terphenyl	20.0	18.1			91%	50 - 150	7085915	09/01/07 22:07
7085991-BS1								
Diesel	40.0	33.2		mg/kg	83%	59 - 135	7085991	09/01/07 23:03
Surrogate: o-Terphenyl	0.800	0.841			105%	50 - 150	7085991	09/01/07 23:03
Purgeable Petroleum Hydrocarbons								
7090564-BS1								
GRO (C4-C12) NW	1000	846		ug/L	85%	66 - 125	7090564	09/06/07 03:08
Surrogate: a,a,a-Trifluorotoluene	30.0	36.2			121%	46 - 153	7090564	09/06/07 03:08
7090564-BS2								
GRO (C4-C12) NW	1000	842		ug/L	84%	66 - 125	7090564	09/06/07 08:47
Surrogate: a,a,a-Trifluorotoluene	30.0	37.4			125%	46 - 153	7090564	09/06/07 08:47
7090910-BS2								
GRO (C4-C12) NW	10.0	9.20		mg/kg	92%	72 - 126	7090910	09/06/07 19:21
Surrogate: a,a,a-Trifluorotoluene	30.0	33.7			112%	52 - 145	7090910	09/06/07 19:21

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
7085913-BSD1												
Lead		97.2		mg/kg	100	97%	80 - 120	0.7	20	7085913		09/07/07 06:18
Volatile Organic Compounds by EPA Method 8260B												
7090180-BSD1												
Benzene		45.8		ug/L	50.0	92%	78 - 125	1	15	7090180		09/10/07 15:05
1,2-Dibromoethane (EDB)		54.0		ug/L	50.0	108%	80 - 132	1	16	7090180		09/10/07 15:05
1,1-Dichloroethane		47.8		ug/L	50.0	96%	79 - 120	1	17	7090180		09/10/07 15:05
Ethylbenzene		44.8		ug/L	50.0	90%	73 - 134	1	15	7090180		09/10/07 15:05
Isopropylbenzene		40.6		ug/L	50.0	81%	74 - 121	1	17	7090180		09/10/07 15:05
Methyl tert-Butyl Ether		49.5		ug/L	50.0	99%	69 - 122	2	16	7090180		09/10/07 15:05
n-Propylbenzene		50.4		ug/L	50.0	101%	76 - 133	1	18	7090180		09/10/07 15:05
Toluene		52.0		ug/L	50.0	104%	78 - 122	1	15	7090180		09/10/07 15:05
1,3,5-Trimethylbenzene		48.8		ug/L	50.0	98%	72 - 136	0.9	20	7090180		09/10/07 15:05
1,2,4-Trimethylbenzene		49.2		ug/L	50.0	98%	73 - 134	0.1	18	7090180		09/10/07 15:05
Xylenes, total		128		ug/L	150	86%	79 - 130	1	16	7090180		09/10/07 15:05
Surrogate: 1,2-Dichloroethane-d4		24.0		ug/L	25.0	96%	62 - 142			7090180		09/10/07 15:05
Surrogate: Dibromofluoromethane		24.1		ug/L	25.0	96%	78 - 123			7090180		09/10/07 15:05
Surrogate: Toluene-d8		26.3		ug/L	25.0	105%	79 - 120			7090180		09/10/07 15:05
Surrogate: 4-Bromofluorobenzene		23.6		ug/L	25.0	94%	75 - 133			7090180		09/10/07 15:05
7090348-BSD1												
Tertiary Butyl Alcohol		453		ug/kg	500	91%	22 - 159	2	47	7090348		09/07/07 21:37
Diisopropyl Ether		45.0		ug/kg	50.0	90%	70 - 122	9	40	7090348		09/07/07 21:37
Ethyl tert-Butyl Ether		46.6		ug/kg	50.0	93%	66 - 126	8	50	7090348		09/07/07 21:37
Tert-Amyl Methyl Ether		47.3		ug/kg	50.0	95%	67 - 130	6	43	7090348		09/07/07 21:37
Benzene		50.0		ug/kg	50.0	100%	78 - 123	9	42	7090348		09/07/07 21:37
1,2-Dibromoethane (EDB)		50.6		ug/kg	50.0	101%	79 - 129	9	50	7090348		09/07/07 21:37
1,2-Dichloroethane		50.8		ug/kg	50.0	102%	73 - 131	7	42	7090348		09/07/07 21:37
Ethylbenzene		49.0		ug/kg	50.0	98%	78 - 127	10	42	7090348		09/07/07 21:37
Isopropylbenzene		48.8		ug/kg	50.0	98%	73 - 123	9	44	7090348		09/07/07 21:37
Methyl tert-Butyl Ether		46.8		ug/kg	50.0	94%	62 - 129	6	47	7090348		09/07/07 21:37
n-Propylbenzene		45.6		ug/kg	50.0	91%	71 - 135	10	50	7090348		09/07/07 21:37
Toluene		49.6		ug/kg	50.0	99%	77 - 124	9	50	7090348		09/07/07 21:37
1,3,5-Trimethylbenzene		48.8		ug/kg	50.0	98%	74 - 133	10	50	7090348		09/07/07 21:37
1,2,4-Trimethylbenzene		46.5		ug/kg	50.0	93%	72 - 132	9	50	7090348		09/07/07 21:37
Xylenes, total		147		ug/kg	150	98%	77 - 128	10	50	7090348		09/07/07 21:37
Surrogate: 1,2-Dichloroethane-d4		49.6		ug/kg	50.0	99%	54 - 145			7090348		09/07/07 21:37
Surrogate: Dibromofluoromethane		52.7		ug/kg	50.0	105%	67 - 129			7090348		09/07/07 21:37
Surrogate: Toluene-d8		49.1		ug/kg	50.0	98%	66 - 142			7090348		09/07/07 21:37
Surrogate: 4-Bromofluorobenzene		48.4		ug/kg	50.0	97%	68 - 150			7090348		09/07/07 21:37
7090635-BSD1												

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7090635-BSD1												
Tert-Amyl Methyl Ether		46.4	MNR1	ug/L	50.0	93%	63 - 133	1	16	7090635		09/05/07 01:11
Acetone		291	MNR1	ug/L	250	116%	63 - 147	14	22	7090635		09/05/07 01:11
Ethyl tert-Butyl Ether		45.5	MNR1	ug/L	50.0	91%	65 - 126	1	16	7090635		09/05/07 01:11
Acrylonitrile		248	MNR1	ug/L	250	99%	76 - 125	1	15	7090635		09/05/07 01:11
Diisopropyl Ether		47.9	MNR1	ug/L	50.0	96%	74 - 120	2	17	7090635		09/05/07 01:11
Benzene		50.3	MNR1	ug/L	50.0	101%	78 - 125	2	15	7090635		09/05/07 01:11
Tertiary Butyl Alcohol		751	MNR1	ug/L	500	150%	33 - 181	3	20	7090635		09/05/07 01:11
Bromobenzene		49.7	MNR1	ug/L	50.0	99%	71 - 142	0.1	17	7090635		09/05/07 01:11
Bromochloromethane		44.6	MNR1	ug/L	50.0	89%	76 - 129	2	15	7090635		09/05/07 01:11
Bromodichloromethane		55.0	MNR1	ug/L	50.0	110%	71 - 134	1	17	7090635		09/05/07 01:11
Bromoform		51.3	MNR1	ug/L	50.0	103%	49 - 129	0.1	19	7090635		09/05/07 01:11
Bromomethane		55.8	MNR1	ug/L	50.0	112%	42 - 154	10	41	7090635		09/05/07 01:11
2-Butanone		238	MNR1	ug/L	250	95%	74 - 130	4	17	7090635		09/05/07 01:11
tert-Butylbenzene		59.8	MNR1	ug/L	50.0	120%	79 - 128	1	20	7090635		09/05/07 01:11
n-Butylbenzene		54.8	MNR1	ug/L	50.0	110%	68 - 138	2	23	7090635		09/05/07 01:11
Carbon disulfide		57.0	MNR1	ug/L	50.0	114%	65 - 122	3	50	7090635		09/05/07 01:11
Carbon Tetrachloride		63.5	MNR1	ug/L	50.0	127%	62 - 142	0.2	18	7090635		09/05/07 01:11
Chlorobenzene		52.9	MNR1	ug/L	50.0	106%	82 - 125	2	15	7090635		09/05/07 01:11
Chlorodibromomethane		51.3	MNR1	ug/L	50.0	103%	67 - 135	1	18	7090635		09/05/07 01:11
Chloroethane		47.0	MNR1	ug/L	50.0	94%	57 - 138	1	36	7090635		09/05/07 01:11
Chloroform		52.8	MNR1	ug/L	50.0	106%	75 - 122	2	16	7090635		09/05/07 01:11
Chloromethane		31.5	MNR1	ug/L	50.0	63%	31 - 147	5	46	7090635		09/05/07 01:11
2-Chlorotoluene		55.2	MNR1	ug/L	50.0	110%	74 - 135	2	17	7090635		09/05/07 01:11
4-Chlorotoluene		57.6	MNR1	ug/L	50.0	115%	74 - 133	0.6	16	7090635		09/05/07 01:11
1,2-Dibromo-3-chloropropane		36.2	MNR1	ug/L	50.0	72%	45 - 140	1	20	7090635		09/05/07 01:11
1,2-Dibromoethane (EDB)		55.6	MNR1	ug/L	50.0	111%	80 - 132	1	16	7090635		09/05/07 01:11
Dibromomethane		51.0	MNR1	ug/L	50.0	102%	69 - 132	0.2	16	7090635		09/05/07 01:11
1,2-Dichlorobenzene		57.2	MNR1	ug/L	50.0	114%	82 - 133	1	16	7090635		09/05/07 01:11
1,3-Dichlorobenzene		59.1	MNR1	ug/L	50.0	118%	77 - 132	1	17	7090635		09/05/07 01:11
1,4-Dichlorobenzene		57.2	MNR1	ug/L	50.0	114%	79 - 125	0.6	16	7090635		09/05/07 01:11
Dichlorodifluoromethane		22.6	MNR1	ug/L	50.0	45%	34 - 120	0.7	21	7090635		09/05/07 01:11
1,2-Dichloroethane		55.4	MNR1	ug/L	50.0	111%	64 - 134	2	19	7090635		09/05/07 01:11
1,1-Dichloroethane		46.6	R7,	ug/L	50.0	93%	79 - 120	22	17	7090635		09/05/07 01:11
1,1-Dichloroethene		58.9	MNR1	ug/L	50.0	118%	71 - 123	2	34	7090635		09/05/07 01:11
trans-1,2-Dichloroethene		61.8	MNR1	ug/L	50.0	124%	74 - 127	1	21	7090635		09/05/07 01:11
cis-1,2-Dichloroethene		51.3	MNR1	ug/L	50.0	103%	71 - 126	1	16	7090635		09/05/07 01:11
1,3-Dichloropropane		54.5	MNR1	ug/L	50.0	109%	80 - 128	2	16	7090635		09/05/07 01:11
2,2-Dichloropropane		49.1	MNR1	ug/L	50.0	98%	25 - 156	2	16	7090635		09/05/07 01:11
1,2-Dichloropropane		48.8	MNR1	ug/L	50.0	98%	73 - 120	2	15	7090635		09/05/07 01:11
trans-1,3-Dichloropropene		51.6	MNR1	ug/L	50.0	103%	61 - 124	1	19	7090635		09/05/07 01:11
1,1-Dichloropropene		57.1	MNR1	ug/L	50.0	114%	79 - 138	2	17	7090635		09/05/07 01:11

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7090635-BSD1												
cis-1,3-Dichloropropene		58.6	MNR1	ug/L	50.0	117%	70 - 135	1	19	7090635		09/05/07 01:11
Ethylbenzene		54.4	MNR1	ug/L	50.0	109%	73 - 134	2	15	7090635		09/05/07 01:11
Hexachlorobutadiene		64.8	MNR1	ug/L	50.0	130%	58 - 145	0.6	35	7090635		09/05/07 01:11
2-Hexanone		237	MNR1	ug/L	250	95%	72 - 136	2	18	7090635		09/05/07 01:11
Isopropylbenzene		57.6	MNR1	ug/L	50.0	115%	74 - 121	1	17	7090635		09/05/07 01:11
p-Isopropyltoluene		53.1	MNR1	ug/L	50.0	106%	70 - 133	1	21	7090635		09/05/07 01:11
Methyl Acetate		42.4	MNR1	ug/L	50.0	85%	58 - 185	12	21	7090635		09/05/07 01:11
Methyl tert-Butyl Ether		52.9	MNR1	ug/L	50.0	106%	69 - 122	1	16	7090635		09/05/07 01:11
Methylene Chloride		54.1	MNR1	ug/L	50.0	108%	75 - 127	1	19	7090635		09/05/07 01:11
4-Methyl-2-pentanone		237	MNR1	ug/L	250	95%	77 - 132	2	18	7090635		09/05/07 01:11
Naphthalene		36.5	MNR1	ug/L	50.0	73%	65 - 145	5	34	7090635		09/05/07 01:11
n-Propylbenzene		56.8	MNR1	ug/L	50.0	114%	76 - 133	1	18	7090635		09/05/07 01:11
Styrene		67.9	MNR1	ug/L	50.0	136%	80 - 145	1	22	7090635		09/05/07 01:11
1,1,2,2-Tetrachloroethane		43.8	MNR1	ug/L	50.0	88%	71 - 137	7	16	7090635		09/05/07 01:11
1,1,1,2-Tetrachloroethane		59.7	MNR1	ug/L	50.0	119%	72 - 136	4	16	7090635		09/05/07 01:11
Tetrachloroethene		57.8	MNR1	ug/L	50.0	116%	70 - 131	1	20	7090635		09/05/07 01:11
Toluene		54.2	MNR1	ug/L	50.0	108%	78 - 122	2	15	7090635		09/05/07 01:11
1,2,4-Trichlorobenzene		46.9	MNR1	ug/L	50.0	94%	63 - 140	3	26	7090635		09/05/07 01:11
1,2,3-Trichlorobenzene		46.2	MNR1	ug/L	50.0	92%	60 - 144	3	33	7090635		09/05/07 01:11
1,1,1-Trichloroethane		56.4	MNR1	ug/L	50.0	113%	69 - 128	2	17	7090635		09/05/07 01:11
1,1,2-Trichloroethane		54.8	MNR1	ug/L	50.0	110%	81 - 127	2	16	7090635		09/05/07 01:11
Trichloroethene		57.7	MNR1	ug/L	50.0	115%	73 - 133	3	17	7090635		09/05/07 01:11
Trichlorofluoromethane		51.2	MNR1	ug/L	50.0	102%	49 - 139	2	42	7090635		09/05/07 01:11
1,2,3-Trichloropropane		44.6	MNR1	ug/L	50.0	89%	52 - 151	2	18	7090635		09/05/07 01:11
1,3,5-Trimethylbenzene		58.4	MNR1	ug/L	50.0	117%	72 - 136	1	20	7090635		09/05/07 01:11
1,2,4-Trimethylbenzene		58.0	MNR1	ug/L	50.0	116%	73 - 134	2	18	7090635		09/05/07 01:11
Vinyl chloride		45.1	MNR1	ug/L	50.0	90%	54 - 137	3	50	7090635		09/05/07 01:11
o-Xylene		58.7	MNR1	ug/L	50.0	117%	79 - 130	0.7	16	7090635		09/05/07 01:11
m,p-Xylene		114	MNR1	ug/L	100	114%	79 - 131	1	16	7090635		09/05/07 01:11
Xylenes, total		172	MNR1	ug/L	150	115%	79 - 130	0.9	16	7090635		09/05/07 01:11
Surrogate: 1,2-Dichloroethane-d4		24.3		ug/L	25.0	97%	62 - 142			7090635		09/05/07 01:11
Surrogate: Dibromofluoromethane		22.9		ug/L	25.0	92%	78 - 123			7090635		09/05/07 01:11
Surrogate: Toluene-d8		25.0		ug/L	25.0	100%	79 - 120			7090635		09/05/07 01:11
Surrogate: 4-Bromofluorobenzene		22.8		ug/L	25.0	91%	75 - 133			7090635		09/05/07 01:11
7090635-BSD2												
Butyl acetate		484		ug/L	500	97%	12 - 172	17	50	7090635		09/05/07 02:00
Ethyl Acetate		635		ug/L	500	127%	12 - 172	19	50	7090635		09/05/07 02:00
Surrogate: 1,2-Dichloroethane-d4		32.6		ug/L	25.0	130%	62 - 142			7090635		09/05/07 02:00
Surrogate: Dibromofluoromethane		32.2	Z10	ug/L	25.0	129%	78 - 123			7090635		09/05/07 02:00
Surrogate: Toluene-d8		22.9		ug/L	25.0	92%	79 - 120			7090635		09/05/07 02:00

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7090635-BSD2												
Surrogate: 4-Bromofluorobenzene		24.3		ug/L	25.0	97%	75 - 133			7090635		09/05/07 02:00
7091613-BSD1												
Tert-Amyl Methyl Ether		54.9		ug/L	50.0	110%	63 - 133	4	16	7091613		09/07/07 14:39
Acetone		265		ug/L	250	106%	63 - 147	4	22	7091613		09/07/07 14:39
Ethyl tert-Butyl Ether		53.9		ug/L	50.0	108%	65 - 126	2	16	7091613		09/07/07 14:39
Acrylonitrile		262		ug/L	250	105%	76 - 125	1	15	7091613		09/07/07 14:39
Diisopropyl Ether		51.7		ug/L	50.0	103%	74 - 120	4	17	7091613		09/07/07 14:39
Benzene		50.4		ug/L	50.0	101%	78 - 125	1	15	7091613		09/07/07 14:39
Tertiary Butyl Alcohol		640		ug/L	500	128%	33 - 181	17	20	7091613		09/07/07 14:39
Bromobenzene		48.7		ug/L	50.0	97%	71 - 142	3	17	7091613		09/07/07 14:39
Bromochloromethane		49.1		ug/L	50.0	98%	76 - 129	0.2	15	7091613		09/07/07 14:39
Bromodichloromethane		59.8		ug/L	50.0	120%	71 - 134	0.7	17	7091613		09/07/07 14:39
Bromoform		58.1		ug/L	50.0	116%	49 - 129	2	19	7091613		09/07/07 14:39
Bromomethane		44.4		ug/L	50.0	89%	42 - 154	1	41	7091613		09/07/07 14:39
2-Butanone		250		ug/L	250	100%	74 - 130	5	17	7091613		09/07/07 14:39
tert-Butylbenzene		51.3		ug/L	50.0	103%	79 - 128	1	20	7091613		09/07/07 14:39
n-Butylbenzene		47.9		ug/L	50.0	96%	68 - 138	2	23	7091613		09/07/07 14:39
sec-Butylbenzene		53.2		ug/L	50.0	106%	78 - 129	2	21	7091613		09/07/07 14:39
Carbon disulfide		52.6		ug/L	50.0	105%	65 - 122	0.5	50	7091613		09/07/07 14:39
Carbon Tetrachloride		58.2		ug/L	50.0	116%	62 - 142	0.3	18	7091613		09/07/07 14:39
Chlorobenzene		50.5		ug/L	50.0	101%	82 - 125	3	15	7091613		09/07/07 14:39
Chlorodibromomethane		51.1		ug/L	50.0	102%	67 - 135	2	18	7091613		09/07/07 14:39
Chloroethane		44.4		ug/L	50.0	89%	57 - 138	0.8	36	7091613		09/07/07 14:39
Chloroform		52.3		ug/L	50.0	105%	75 - 122	2	16	7091613		09/07/07 14:39
Chloromethane		36.5		ug/L	50.0	73%	31 - 147	5	46	7091613		09/07/07 14:39
2-Chlorotoluene		46.8		ug/L	50.0	94%	74 - 135	1	17	7091613		09/07/07 14:39
4-Chlorotoluene		45.9		ug/L	50.0	92%	74 - 133	0.5	16	7091613		09/07/07 14:39
1,2-Dibromo-3-chloropropane		52.6		ug/L	50.0	105%	45 - 140	2	20	7091613		09/07/07 14:39
1,2-Dibromoethane (EDB)		49.1		ug/L	50.0	98%	80 - 132	2	16	7091613		09/07/07 14:39
Dibromomethane		58.5		ug/L	50.0	117%	69 - 132	9	16	7091613		09/07/07 14:39
1,2-Dichlorobenzene		46.7		ug/L	50.0	93%	82 - 133	0.2	16	7091613		09/07/07 14:39
1,3-Dichlorobenzene		47.3		ug/L	50.0	95%	77 - 132	0.2	17	7091613		09/07/07 14:39
1,4-Dichlorobenzene		48.4		ug/L	50.0	97%	79 - 125	1	16	7091613		09/07/07 14:39
Dichlorodifluoromethane		31.8		ug/L	50.0	64%	34 - 120	2	21	7091613		09/07/07 14:39
1,2-Dichloroethane		57.8		ug/L	50.0	116%	64 - 134	0.5	19	7091613		09/07/07 14:39
1,1-Dichloroethane		52.0		ug/L	50.0	104%	79 - 120	0.8	17	7091613		09/07/07 14:39
1,1-Dichloroethene		54.5		ug/L	50.0	109%	71 - 123	2	34	7091613		09/07/07 14:39
trans-1,2-Dichloroethene		54.4		ug/L	50.0	109%	74 - 127	0.7	21	7091613		09/07/07 14:39
cis-1,2-Dichloroethene		54.0		ug/L	50.0	108%	71 - 126	3	16	7091613		09/07/07 14:39
1,3-Dichloropropane		51.0		ug/L	50.0	102%	80 - 128	1	16	7091613		09/07/07 14:39

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7091613-BSD1												
2,2-Dichloropropane		56.2		ug/L	50.0	112%	25 - 156	2	16	7091613		09/07/07 14:39
1,2-Dichloropropane		44.1		ug/L	50.0	88%	73 - 120	2	15	7091613		09/07/07 14:39
trans-1,3-Dichloropropene		55.3		ug/L	50.0	111%	61 - 124	1	19	7091613		09/07/07 14:39
1,1-Dichloropropene		52.6		ug/L	50.0	105%	79 - 138	1	17	7091613		09/07/07 14:39
cis-1,3-Dichloropropene		52.2		ug/L	50.0	104%	70 - 135	0.3	19	7091613		09/07/07 14:39
Ethylbenzene		50.1		ug/L	50.0	100%	73 - 134	3	15	7091613		09/07/07 14:39
Hexachlorobutadiene		54.6		ug/L	50.0	109%	58 - 145	2	35	7091613		09/07/07 14:39
2-Hexanone		238		ug/L	250	95%	72 - 136	5	18	7091613		09/07/07 14:39
Isopropylbenzene		50.6		ug/L	50.0	101%	74 - 121	1	17	7091613		09/07/07 14:39
p-Isopropyltoluene		52.2		ug/L	50.0	104%	70 - 133	2	21	7091613		09/07/07 14:39
Methyl tert-Butyl Ether		52.5		ug/L	50.0	105%	69 - 122	4	16	7091613		09/07/07 14:39
Methylene Chloride		56.2		ug/L	50.0	112%	75 - 127	0.5	19	7091613		09/07/07 14:39
4-Methyl-2-pentanone		244		ug/L	250	98%	77 - 132	5	18	7091613		09/07/07 14:39
Naphthalene		56.0		ug/L	50.0	112%	65 - 145	0.8	34	7091613		09/07/07 14:39
n-Propylbenzene		48.5		ug/L	50.0	97%	76 - 133	2	18	7091613		09/07/07 14:39
Styrene		54.0		ug/L	50.0	108%	80 - 145	3	22	7091613		09/07/07 14:39
1,1,2,2-Tetrachloroethane		49.5		ug/L	50.0	99%	71 - 137	6	16	7091613		09/07/07 14:39
1,1,1,2-Tetrachloroethane		60.1		ug/L	50.0	120%	72 - 136	0.7	16	7091613		09/07/07 14:39
Tetrachloroethene		48.9		ug/L	50.0	98%	70 - 131	3	20	7091613		09/07/07 14:39
Toluene		49.7		ug/L	50.0	99%	78 - 122	0.8	15	7091613		09/07/07 14:39
1,2,4-Trichlorobenzene		47.6		ug/L	50.0	95%	63 - 140	0.1	26	7091613		09/07/07 14:39
1,2,3-Trichlorobenzene		51.0		ug/L	50.0	102%	60 - 144	2	33	7091613		09/07/07 14:39
1,1,1-Trichloroethane		55.9		ug/L	50.0	112%	69 - 128	4	17	7091613		09/07/07 14:39
1,1,2-Trichloroethane		51.6		ug/L	50.0	103%	81 - 127	0.9	16	7091613		09/07/07 14:39
Trichloroethene		52.1		ug/L	50.0	104%	73 - 133	0.6	17	7091613		09/07/07 14:39
Trichlorofluoromethane		57.2		ug/L	50.0	114%	49 - 139	0.8	42	7091613		09/07/07 14:39
1,2,3-Trichloropropane		46.8		ug/L	50.0	94%	52 - 151	4	18	7091613		09/07/07 14:39
1,3,5-Trimethylbenzene		49.3		ug/L	50.0	99%	72 - 136	2	20	7091613		09/07/07 14:39
1,2,4-Trimethylbenzene		50.4		ug/L	50.0	101%	73 - 134	0.04	18	7091613		09/07/07 14:39
Vinyl chloride		40.0		ug/L	50.0	80%	54 - 137	2	50	7091613		09/07/07 14:39
Xylenes, total		154		ug/L	150	103%	79 - 130	2	16	7091613		09/07/07 14:39
Surrogate: 1,2-Dichloroethane-d4		25.4		ug/L	25.0	102%	62 - 142			7091613		09/07/07 14:39
Surrogate: Dibromofluoromethane		24.8		ug/L	25.0	99%	78 - 123			7091613		09/07/07 14:39
Surrogate: Toluene-d8		23.4		ug/L	25.0	94%	79 - 120			7091613		09/07/07 14:39
Surrogate: 4-Bromofluorobenzene		22.5		ug/L	25.0	90%	75 - 133			7091613		09/07/07 14:39
Purgeable Petroleum Hydrocarbons												
7090564-BSD1												
GRO (C4-C12) NW		829		ug/L	1000	83%	66 - 125	2	27	7090564		09/06/07 03:36
Surrogate: a,a,a-Trifluorotoluene		37.1		ug/L	30.0	124%	46 - 153			7090564		09/06/07 03:36

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Purgeable Petroleum Hydrocarbons												
7090564-BSD2												
GRO (C4-C12) NW		821		ug/L	1000	82%	66 - 125	3	27	7090564		09/06/07 09:15
Surrogate: a,a,a-Trifluorotoluene		37.1		ug/L	30.0	124%	46 - 153			7090564		09/06/07 09:15
7090910-BSD2												
GRO (C4-C12) NW		11.2		mg/kg	10.0	112%	72 - 126	20	37	7090910		09/06/07 19:42
Surrogate: a,a,a-Trifluorotoluene		33.5		ug/L	30.0	112%	52 - 145			7090910		09/06/07 19:42

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Total Metals by EPA Method 6010B										
7085913-MS1										
Lead	4.91	93.4		mg/kg	97.7	91%	75 - 125	7085913	NQH3510-02	09/07/07 06:32
Dissolved Metals by EPA Method 6010B										
7090249-MS1										
Lead	ND	0.0469		mg/L	0.0500	94%	75 - 125	7090249	NQH3676-07	09/06/07 00:51
Volatile Organic Compounds by EPA Method 8260B										
7090348-MS1										
Tertiary Butyl Alcohol	ND	339		ug/kg	500	68%	10 - 167	7090348	NQI0151-07	09/08/07 07:54
Diisopropyl Ether	ND	35.9		ug/kg	50.0	72%	43 - 131	7090348	NQI0151-07	09/08/07 07:54
Ethyl tert-Butyl Ether	ND	34.8		ug/kg	50.0	70%	45 - 136	7090348	NQI0151-07	09/08/07 07:54
Tert-Amyl Methyl Ether	ND	32.8		ug/kg	50.0	66%	37 - 149	7090348	NQI0151-07	09/08/07 07:54
Benzene	ND	45.2		ug/kg	50.0	90%	41 - 134	7090348	NQI0151-07	09/08/07 07:54
1,2-Dibromoethane (EDB)	ND	38.1		ug/kg	50.0	76%	33 - 147	7090348	NQI0151-07	09/08/07 07:54
1,2-Dichloroethane	ND	40.3		ug/kg	50.0	81%	39 - 143	7090348	NQI0151-07	09/08/07 07:54
Ethylbenzene	ND	45.0		ug/kg	50.0	90%	27 - 143	7090348	NQI0151-07	09/08/07 07:54
Isopropylbenzene	ND	42.7		ug/kg	50.0	85%	20 - 140	7090348	NQI0151-07	09/08/07 07:54
Methyl tert-Butyl Ether	ND	31.8		ug/kg	50.0	64%	26 - 147	7090348	NQI0151-07	09/08/07 07:54
n-Propylbenzene	ND	37.5		ug/kg	50.0	75%	12 - 160	7090348	NQI0151-07	09/08/07 07:54
Toluene	ND	46.6		ug/kg	50.0	93%	31 - 145	7090348	NQI0151-07	09/08/07 07:54
1,3,5-Trimethylbenzene	ND	40.8		ug/kg	50.0	82%	15 - 157	7090348	NQI0151-07	09/08/07 07:54
1,2,4-Trimethylbenzene	ND	38.9		ug/kg	50.0	78%	10 - 156	7090348	NQI0151-07	09/08/07 07:54
Xylenes, total	ND	136		ug/kg	150	91%	27 - 140	7090348	NQI0151-07	09/08/07 07:54
Surrogate: 1,2-Dichloroethane-d4		50.7		ug/kg	50.0	101%	54 - 145	7090348	NQI0151-07	09/08/07 07:54
Surrogate: Dibromofluoromethane		52.8		ug/kg	50.0	106%	67 - 129	7090348	NQI0151-07	09/08/07 07:54
Surrogate: Toluene-d8		50.0		ug/kg	50.0	100%	66 - 142	7090348	NQI0151-07	09/08/07 07:54
Surrogate: 4-Bromofluorobenzene		47.3		ug/kg	50.0	95%	68 - 150	7090348	NQI0151-07	09/08/07 07:54
Polyaromatic Hydrocarbons by EPA 8270C SIM										
7085875-MS1										
Acenaphthene	ND	0.0236		mg/kg	0.0323	73%	43 - 114	7085875	NQH2677-02R E1	09/02/07 23:49
Acenaphthylene	ND	0.0265		mg/kg	0.0323	82%	44 - 118	7085875	NQH2677-02R E1	09/02/07 23:49
Anthracene	ND	0.0294		mg/kg	0.0323	91%	45 - 139	7085875	NQH2677-02R E1	09/02/07 23:49
Benzo (a) anthracene	ND	0.0313		mg/kg	0.0323	97%	39 - 122	7085875	NQH2677-02R E1	09/02/07 23:49
Benzo (a) pyrene	ND	0.0255		mg/kg	0.0323	79%	41 - 117	7085875	NQH2677-02R E1	09/02/07 23:49

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM										
7085875-MS1										
Benzo (b) fluoranthene	ND	0.0184		mg/kg	0.0323	57%	15 - 157	7085875	NQH2677-02R E1	09/02/07 23:49
Benzo (g,h,i) perylene	ND	0.0332		mg/kg	0.0323	103%	10 - 146	7085875	NQH2677-02R E1	09/02/07 23:49
Benzo (k) fluoranthene	ND	0.0265		mg/kg	0.0323	82%	20 - 149	7085875	NQH2677-02R E1	09/02/07 23:49
Chrysene	ND	0.0268		mg/kg	0.0323	83%	18 - 155	7085875	NQH2677-02R E1	09/02/07 23:49
Dibenz (a,h) anthracene	ND	0.0349		mg/kg	0.0323	108%	10 - 163	7085875	NQH2677-02R E1	09/02/07 23:49
Fluoranthene	ND	0.0342		mg/kg	0.0323	106%	11 - 149	7085875	NQH2677-02R E1	09/02/07 23:49
Fluorene	ND	0.0284		mg/kg	0.0323	88%	26 - 149	7085875	NQH2677-02R E1	09/02/07 23:49
Indeno (1,2,3-cd) pyrene	ND	0.0307		mg/kg	0.0323	95%	10 - 147	7085875	NQH2677-02R E1	09/02/07 23:49
1-Methylnaphthalene	ND	0.0226		mg/kg	0.0326	69%	23 - 110	7085875	NQH2677-02R E1	09/02/07 23:49
2-Methylnaphthalene	ND	0.0242		mg/kg	0.0323	75%	34 - 114	7085875	NQH2677-02R E1	09/02/07 23:49
Naphthalene	ND	0.0216		mg/kg	0.0323	67%	36 - 113	7085875	NQH2677-02R E1	09/02/07 23:49
Phenanthrene	0.00165	0.0281		mg/kg	0.0323	82%	10 - 154	7085875	NQH2677-02R E1	09/02/07 23:49
Pyrene	ND	0.0287		mg/kg	0.0323	89%	10 - 173	7085875	NQH2677-02R E1	09/02/07 23:49
Surrogate: Nitrobenzene-d5		0.0300	Z10	mg/kg	0.0323	93%	34 - 87	7085875	NQH2677-02R E1	09/02/07 23:49
Surrogate: 2-Fluorobiphenyl		0.0239		mg/kg	0.0323	74%	30 - 93	7085875	NQH2677-02R E1	09/02/07 23:49
Surrogate: Terphenyl-d14		0.0326		mg/kg	0.0323	101%	49 - 123	7085875	NQH2677-02R E1	09/02/07 23:49
Extractable Petroleum Hydrocarbons										
7085991-MS1										
Diesel	ND	36.6		mg/kg	38.7	95%	35 - 145	7085991	NQH3673-03	09/01/07 23:19
Surrogate: o-Terphenyl		0.854		mg/kg	0.773	110%	50 - 150	7085991	NQH3673-03	09/01/07 23:19
Purgeable Petroleum Hydrocarbons										
7090564-MS1										
GRO (C4-C12) NW	1200	2130		ug/L	1000	93%	28 - 181	7090564	NQH3608-04	09/06/07 11:54
Surrogate: a,a,a-Trifluorotoluene		40.5		ug/L	30.0	135%	46 - 153	7090564	NQH3608-04	09/06/07 11:54

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
7085913-MSD1												
Lead	4.91	94.5		mg/kg	99.2	90%	75 - 125	1	20	7085913	NQH3510-02	09/07/07 06:36
Dissolved Metals by EPA Method 6010B												
7090249-MSD1												
Lead	ND	0.0454		mg/L	0.0500	91%	75 - 125	3	20	7090249	NQH3676-07	09/06/07 00:55
Volatile Organic Compounds by EPA Method 8260B												
7090348-MSD1												
Tertiary Butyl Alcohol	ND	312		ug/kg	500	62%	10 - 167	8	47	7090348	NQI0151-07	09/08/07 08:25
Diisopropyl Ether	ND	32.2		ug/kg	50.0	64%	43 - 131	11	40	7090348	NQI0151-07	09/08/07 08:25
Ethyl tert-Butyl Ether	ND	31.0		ug/kg	50.0	62%	45 - 136	11	50	7090348	NQI0151-07	09/08/07 08:25
Tert-Amyl Methyl Ether	ND	29.6		ug/kg	50.0	59%	37 - 149	10	43	7090348	NQI0151-07	09/08/07 08:25
Benzene	ND	40.9		ug/kg	50.0	82%	41 - 134	10	42	7090348	NQI0151-07	09/08/07 08:25
1,2-Dibromoethane (EDB)	ND	32.9		ug/kg	50.0	66%	33 - 147	15	50	7090348	NQI0151-07	09/08/07 08:25
1,2-Dichloroethane	ND	36.0		ug/kg	50.0	72%	39 - 143	11	42	7090348	NQI0151-07	09/08/07 08:25
Ethylbenzene	ND	40.8		ug/kg	50.0	82%	27 - 143	10	42	7090348	NQI0151-07	09/08/07 08:25
Isopropylbenzene	ND	40.9		ug/kg	50.0	82%	20 - 140	4	44	7090348	NQI0151-07	09/08/07 08:25
Methyl tert-Butyl Ether	ND	28.5		ug/kg	50.0	57%	26 - 147	11	47	7090348	NQI0151-07	09/08/07 08:25
n-Propylbenzene	ND	35.8		ug/kg	50.0	72%	12 - 160	5	50	7090348	NQI0151-07	09/08/07 08:25
Toluene	ND	41.8		ug/kg	50.0	84%	31 - 145	11	50	7090348	NQI0151-07	09/08/07 08:25
1,3,5-Trimethylbenzene	ND	38.0		ug/kg	50.0	76%	15 - 157	7	50	7090348	NQI0151-07	09/08/07 08:25
1,2,4-Trimethylbenzene	ND	36.1		ug/kg	50.0	72%	10 - 156	8	50	7090348	NQI0151-07	09/08/07 08:25
Xylenes, total	ND	124		ug/kg	150	82%	27 - 140	10	50	7090348	NQI0151-07	09/08/07 08:25
Surrogate: 1,2-Dichloroethane-d4		51.3		ug/kg	50.0	103%	54 - 145			7090348	NQI0151-07	09/08/07 08:25
Surrogate: Dibromofluoromethane		53.3		ug/kg	50.0	107%	67 - 129			7090348	NQI0151-07	09/08/07 08:25
Surrogate: Toluene-d8		49.3		ug/kg	50.0	99%	66 - 142			7090348	NQI0151-07	09/08/07 08:25
Surrogate: 4-Bromofluorobenzene		47.4		ug/kg	50.0	95%	68 - 150			7090348	NQI0151-07	09/08/07 08:25
Polyaromatic Hydrocarbons by EPA 8270C SIM												
7085875-MSD1												
Acenaphthene	ND	0.0289		mg/kg	0.0328	88%	43 - 114	20	38	7085875	NQH2677-02R E1	09/03/07 00:09
Acenaphthylene	ND	0.0305		mg/kg	0.0328	93%	44 - 118	14	40	7085875	NQH2677-02R E1	09/03/07 00:09
Anthracene	ND	0.0305		mg/kg	0.0328	93%	45 - 139	4	37	7085875	NQH2677-02R E1	09/03/07 00:09
Benzo (a) anthracene	ND	0.0325		mg/kg	0.0328	99%	39 - 122	4	37	7085875	NQH2677-02R E1	09/03/07 00:09
Benzo (a) pyrene	ND	0.0266		mg/kg	0.0328	81%	41 - 117	4	37	7085875	NQH2677-02R E1	09/03/07 00:09
Benzo (b) fluoranthene	ND	0.0410	R	mg/kg	0.0328	125%	15 - 157	76	50	7085875	NQH2677-02R E1	09/03/07 00:09
Benzo (g,h,i) perylene	ND	0.0341		mg/kg	0.0328	104%	10 - 146	3	50	7085875	NQH2677-02R E1	09/03/07 00:09

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C SIM												
7085875-MSD1												
Benzo (k) fluoranthene	ND	0.0230		mg/kg	0.0328	70%	20 - 149	14	50	7085875	NQH2677-02R E1	09/03/07 00:09
Chrysene	ND	0.0279		mg/kg	0.0328	85%	18 - 155	4	50	7085875	NQH2677-02R E1	09/03/07 00:09
Dibenz (a,h) anthracene	ND	0.0358		mg/kg	0.0328	109%	10 - 163	3	42	7085875	NQH2677-02R E1	09/03/07 00:09
Fluoranthene	ND	0.0364		mg/kg	0.0328	111%	11 - 149	6	43	7085875	NQH2677-02R E1	09/03/07 00:09
Fluorene	ND	0.0315		mg/kg	0.0328	96%	26 - 149	10	30	7085875	NQH2677-02R E1	09/03/07 00:09
Indeno (1,2,3-cd) pyrene	ND	0.0315		mg/kg	0.0328	96%	10 - 147	3	50	7085875	NQH2677-02R E1	09/03/07 00:09
1-Methylnaphthalene	ND	0.0276		mg/kg	0.0331	83%	23 - 110	20	43	7085875	NQH2677-02R E1	09/03/07 00:09
2-Methylnaphthalene	ND	0.0295		mg/kg	0.0328	90%	34 - 114	20	44	7085875	NQH2677-02R E1	09/03/07 00:09
Naphthalene	ND	0.0266		mg/kg	0.0328	81%	36 - 113	21	353	7085875	NQH2677-02R E1	09/03/07 00:09
Phenanthrene	0.00165	0.0292		mg/kg	0.0328	84%	10 - 154	4	50	7085875	NQH2677-02R E1	09/03/07 00:09
Pyrene	ND	0.0312		mg/kg	0.0328	95%	10 - 173	8	50	7085875	NQH2677-02R E1	09/03/07 00:09
Surrogate: Nitrobenzene-d5		0.0341	Z10	mg/kg	0.0328	104%	34 - 87			7085875	NQH2677-02R E1	09/03/07 00:09
Surrogate: 2-Fluorobiphenyl		0.0279		mg/kg	0.0328	85%	30 - 93			7085875	NQH2677-02R E1	09/03/07 00:09
Surrogate: Terphenyl-d14		0.0315		mg/kg	0.0328	96%	49 - 123			7085875	NQH2677-02R E1	09/03/07 00:09
Extractable Petroleum Hydrocarbons												
7085991-MSD1												
Diesel	ND	32.5		mg/kg	39.9	81%	35 - 145	12	43	7085991	NQH3673-03	09/01/07 23:34
Surrogate: o-Terphenyl		0.848		mg/kg	0.798	106%	50 - 150			7085991	NQH3673-03	09/01/07 23:34
Purgeable Petroleum Hydrocarbons												
7090564-MSD1												
GRO (C4-C12) NW	1200	2250		ug/L	1000	105%	28 - 181	5	27	7090564	NQH3608-04	09/06/07 12:22
Surrogate: a,a,a-Trifluorotoluene		41.8		ug/L	30.0	139%	46 - 153			7090564	NQH3608-04	09/06/07 12:22

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

CERTIFICATION SUMMARY

TestAmerica - Nashville, TN

Method	Matrix	AIHA	Nelac	Oregon
NWTPH-Dx	Soil	N/A	X	X
NWTPH-Dx	Water	N/A	X	X
NWTPH-Gx	Soil	N/A	X	X
NWTPH-Gx	Water	N/A	X	X
SW846 6010B	Soil	N/A	X	X
SW846 6010B	Water	N/A	X	X
SW846 8260B	Soil	N/A	X	X
SW846 8260B	Water	N/A	X	X
SW846 8270CSIM	Soil	N/A	X	X
SW846 8270CSIM	Water	N/A	X	X

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte
NWTPH-Gx	Soil	GRO (C4-C12) NW
	Water	GRO (C4-C12) NW

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Delta Environmental (Minnesota) / Shell	Work Order:	NQH3608
	5910 Rice Creek Pkwy, Ste 100	Project Name:	14951 SW Bangy Lane, Lake Oswego, OR
	St. Paul, MN 55126	Project Number:	SAP 121704
Attn	Mike Lee	Received:	08/30/07 08:10

DATA QUALIFIERS AND DEFINITIONS

H2	Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
QP1	The primary contamination elutes between C18 - C40, which is in the motor oil range.
QP3	The primary contamination elutes between C8 - C18, which is in the kerosene range.
QP3a	The primary contamination elutes between C8 -C18, which is in the kerosene range.
QP6	The contamination did not match any standards in our library.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R7	LCS/LCSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
Z10	Surrogate outside laboratory historical limits but within method guidelines. No effect on data.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville, TN

COOLER RECEIPT FORM

NQH3608

MSK-0215

Cooler Received/Opened On 8-30-07 8:10

1. Tracking # 8747 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID 101507

2. Temperature of rep. sample or temp blank when opened: 2.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial) WS

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) JR

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

If preservation in-house was needed, record standard ID of preservative used here

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) JR

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) JR

I certify that I attached a label with the unique LIMS number to each container (intial) JR

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO #

BIS = Broken in shipment

TestAmerica ANALYTICAL TESTING CORPORATION
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On: 8/30/07 @ 8:10

Tracking # 9015

Fed-Ex Gun ID:92171982

1. Temperature of rep. sample or temp blank when opened: 4/2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here_____

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Shell Oil Products US Chain Of Custody Record

TEST AMERICA

- ☑ 2960 Foster Creighton Drive, Nashville, TN 37204
- ☐ 9405 S. W. Nimbus Ave., Beaverton, OR 97008
- ☐ 2000 W. Int'l Airport Rd #A10, Anchorage AK 99502
- ☐ 11922 East 1st Avenue, Spokane, WA 99206

SOP US Project Manager to be invoiced:

- ☑ SCIENCE & ENGINEERING
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON
- ☐ BILL CONSULTANT

NAME OF PM TO BILL: Dave Kremer

NAME OF TS TO BILL:

INCIDENT # (S&E ONLY)

SAP or CRMT # (TS/CRMT): [redacted] 121704

DATE: 8/27/07

PAGE: 1 of 1

CONSULTANT COMPANY: Delta Consultants

ADDRESS: 5910 Rice Creek Parkway, Suite 100

CITY: Sr. Paul, MN 55126

TELEPHONE: 651.639.9449 FAX: 651.639.9473 E-MAIL: gturgeon@deltaenv.com

SITE ADDRESS (Street and City): 14951 SW Bangy Ln Lake Oswego, OR

PROJECT CONTACT (Report to): Gary Turgeon

CONSULTANT PROJECT NO.: 121704

SAMPLER NAME(S) (Print): Jeffrey Schultz

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES : **NQH3608** 09/14/07 23:59

REQUESTED ANALYSIS if more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	SOIL: TOTAL Lead by (EPA 6010B)	WATER: DISSOLVED Lead by (EPA 6010B)	NWTPH-Gx (Gasoline) by 8015M	CUSTOM - OR RBDM VOCs+ 5 Shell Oxygenates by 8260B		Polyaromatic Hydrocarbons - 8270C SIM	NWTPH-Dx (Diesel) by 8015M w silica gel cleanup		SOIL: TCLP for Cd, Cr, Pb by SW 6010B	WATER: Dissolved Cd, Cr, Pb-SW 6010B	PCB's by 8082	VOCs Full List by 8260B+5 Shell Oxygenates	Container PID Readings or Laboratory Notes
	TKSB-1-8	8/27	1115	S				3		3	X		X	X		X	X	NQH3608-1					
	TKSB-1	8/27	1115	GW	5			2		7		X										2	
	TKSB-3-8	8/27	1000	S				3		3	X											3	
	TKSB-3	8/27	1000	GW	10			2		12		X										4	
	DSSB-4-8	8/27	930	S				2		2	X											5	
	DSSB-4	8/27	930	GW	10			2		12		X										6	
	DSSB-5-10	8/27	1230	S				3		3	X											7	
	DSSB-5	8/27	1230	GW	5			2		7		X										8	
																						9	

Relinquished by: (Signature)	Received by: (Signature)	Date: 8-27-07	Time: 1730
Relinquished by: (Signature)	Received by: (Signature) Helga Buscema DAP	Date: 8/27/07	Time: 1750
Relinquished by: (Signature) 8/29/07	Received by: (Signature) 8/30/07 0810 2.5°C	Date:	Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

DANA Kevin

From: TORAN Greg
Sent: Wednesday, October 03, 2007 5:09 PM
To: DANA Kevin
Subject: RE: facilities 838 and 1356

Thanks, one is closed it was a dup

Gregory Toran

-----Original Message-----
From: DANA Kevin
Sent: Wednesday, October 03, 2007 5:02 PM
To: TORAN Greg
Subject: FW: facilities 838 and 1356

Don't know if Paiko mentioned this to you or not . . . .

-----Original Message-----
From: CLARK Liz
Sent: Tuesday, September 25, 2007 11:39 AM
To: PAIKO Steven J
Cc: DANA Kevin
Subject: facilities 838 and 1356

Hi, I am accepting releases for Kevin while he on vacation. In looking up facility ID numbers I noticed that facilities 838 and 1356 are the same location - one listed as a Shell and the other as a Texaco. Perhaps the same facility? Thanks

Liz Clark
Department of Environmental Quality
Eastern Region, The Dalles
Solid Waste Permit Coordinator
UST Duty Officer

DANA Kevin

From: CLARK Liz
Sent: Friday, September 28, 2007 9:47 AM
To: DANA Kevin
Subject: Releases Accepted

Hi Kevin, I wanted to let you know that as of this morning I have accepted 19 releases for you - all but 3 are for Shell Oil. Ginny Deck has been working with Bruce Dyer on an OLPRR problem, apparently when I accept releases for NWR, they don't necessarily show up as accepted when you go into OLPRR. We also had an issue with Shell Oil and had to go in and change addresses on those releases that had been accepted. I made the changes and created QTime numbers for each site so that I could charge my time. I didn't send out letters and CRAs because Mike said that you would want to do that. I am attaching a spreadsheet of the releases and I am sending you the hard copies from each release that I accepted. Welcome back from vacation!

Liz Clark
Department of Environmental Quality
Eastern Region, The Dalles
Solid Waste Permit Coordinator
UST Duty Officer

DANA Kevin

From: DECK Ginny
Sent: Thursday, September 27, 2007 9:48 PM
To: DANA Kevin
Subject: shell sites - address changes I made

Kevin, you may have seen other emails about all the Shell station release reports and the address changes for both the RP & Invoice Contacts. To try to minimize the group angst, I went ahead and changed some sites for you in the database. To avoid confusion, I deleted the previous contacts and replaced them with the correct ones. I also set up Qtime numbers for these 5 sites so I could charge my time. Because you had not yet charged time for your own entry that you did on Sept 5 before your vacation, I have charged my time in October so it makes more sense on the invoice when it goes out.

Please see the other emails about the specific address record numbers to use for any more sites that are reported in Shell's site assessment effort.

Those sites are:

DANA Kevin

From: DECK Ginny
Sent: Tuesday, September 25, 2007 7:15 PM
To: CLARK Liz; DANA Kevin; 'BELYEA David'; KORTENHOF Mike
Subject: RE: Shell Invoicee & RP changes
Importance: High

Liz and Kevin, the Invoice Contacts will need to be changed on all these sites in the LUST database before setting up a Qtime number. Please be sure to correct the contact information before creating a Qtime project. Please delete the old Invoice Contact record and add the new one using address record Party ID # 104853 for the Invoice Contact (read on to see why I'm suggesting this).

It's even worse, though. The RP information was also reported incorrectly to us, so that will have to be changed as well. Additionally, the address system is becoming cluttered with multiple records for Jeff Goold and Shell because OLPRR no longer allows us to check the contact information.

Furthermore, the contractor has started using ADDR Line 2, which is a hold over from our old database and has no field in our new database. It is not carried over to the LUST database contacts screen.

To avoid adding more address records to a list that is already too long, on all new OLPRRs that I review, what I plan to do is this:

- Accept the contact information as given via OLPRR.
- Go into the database; delete the RP and Invoice Contact. Add the correct information.
- For the RP, please use Party ID # 104789 (search on Jeff Goold, Shell).
- For the Invoice Contact, please use Party ID # 104853 (search on Shell%Env).
- Charge the site for this time; it's cost recoverable

For updating existing records, I'm also deleting the wrong record (rather than putting an end date) and then adding the correct record. I'm using the Release Reported date as the contact Start Date.

Mike & Dave, I'm hoping we can implement some changes that I suggested long ago for OLPRR and the LUST database contacts screen. This data cleanup would be easier and parts of it avoidable entirely if we had some of that functionality.

Shell wants Jeff's RP correspondence to be sent to a new address so they can log it and store it permanently; they'll send a copy to Jeff in his Seattle office. Set up the RP contact with Party ID # 104789:

Jeff Goold
Shell Oil Products US
20945 S Wilmington Ave
Carson, CA 90810-1039
425-844-2355
jeff.goold@shell.com

Invoices should be sent to (Party ID # 104853):

Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912
(425) 844-2355

Optionally, I am also entering Jeff's Seattle address as "Contact"; project managers might like to cc correspondence to this address for faster delivery (Party ID # 77):

Jeff Goold
Shell Oil Products US
2555 13th Ave SW
Seattle WA 98134-1013
425-844-2355
jeff.goold@shell.com

This is Jeff's office in Seattle. Correspondence should be sent to the RP address in Carson CA for logging in and permanent record. They'll send a copy to Jeff in Seattle, or you may cc him there.

Please ask me if you have any questions at all.

-----Original Message-----
From: CLARK Liz
Sent: Tuesday, September 25, 2007 3:46 PM
To: DECK Ginny; HUNTER Laurie
Cc: ISMERIO Dawn; DANA Kevin; KORTENHOF Mike; 'BELYEA David'; 'DECK Ginny'
Subject: RE: Shell Invoicee change - 35 sites

I have been accepting these releases for Kevin Dana during the month of September because he is on vacation. I have not created QTime numbers for them. If I accept any more I will change the address before accepting them. Let me know if I should do anything else. Thanks, Liz

-----Original Message-----
From: DECK Ginny
Sent: Tuesday, September 25, 2007 3:40 PM
To: HUNTER Laurie
Cc: ISMERIO Dawn; DANA Kevin; CLARK Liz; KORTENHOF Mike; 'BELYEA David'; DECK Ginny
Subject: Shell Invoicee change - 35 sites
Importance: High

Laurie, this is big, I know. It is for me, too. Shell Oil Products has 42 or so sites that have been reported to us since August 1 with the wrong invoice address. They are still reporting sites, but we'll catch those as we review them and set them up correctly in the database and Qtime. I've attached a list of sites generated by querying the LUST database. Hopefully this is all of them. It's possible that not all of them are set up in Qtime yet, which means they're not in CRIS either. If you could note those, it would help us identify which sites we need to update before setting up Qtime numbers.

The correct invoice address is:

Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912
(425) 844-2355

I have set up an address record in the address system with all this information. It is address record # 104853. Please use this record if possible to avoid setting up any additional ones. The address system is currently cluttered with many new address records for Jeff Goold and Shell.

Please be assured that I have researched this and confirmed with Jeff Goold himself.

DANA Kevin

From: HUNTER Laurie
Sent: Tuesday, September 25, 2007 5:33 PM
To: DECK Ginny; ISMERIO Dawn
Cc: DANA Kevin; CLARK Liz; KORTENHOF Mike; BELYEA David
Subject: FW: Shell Invoicee change - 35 sites
Importance: High

Ginny,

This didn't turn out to be such a big thing for me after all.

Only 13 of the log #'s on your spreadsheet were set up in CRIS. Twelve of those have been updated (log #'s highlighted in yellow on your spreadsheet. The one highlighted in green is currently set up with Delta Environmental Consultants as the RP and not Shell.

Can you or Dawn confirm who the RP should be for T33122 (20-07-1374)? Once I get your answer I will update CRIS accordingly.

Let me know if there is anything else I need to do.

Laurie
x5698
-----Original Message-----
From: DECK Ginny
Sent: Tuesday, September 25, 2007 3:40 PM
To: HUNTER Laurie
Cc: ISMERIO Dawn; DANA Kevin; CLARK Liz; KORTENHOF Mike; 'BELYEA David'; DECK Ginny
Subject: Shell Invoicee change - 35 sites
Importance: High

Laurie, this is big, I know. It is for me, too. Shell Oil Products has 42 or so sites that have been reported to us since August 1 with the wrong invoice address. They are still reporting sites, but we'll catch those as we review them and set them up correctly in the database and Qtime. I've attached a list of sites generated by querying the LUST database. Hopefully this is all of them. It's possible that not all of them are set up in Qtime yet, which means they're not in CRIS either. If you could note those, it would help us identify which sites we need to update before setting up Qtime numbers.

The correct invoice address is:

Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912
(425) 844-2355

I have set up an address record in the address system with all this information. It is address record # 104853. Please use this record if possible to avoid setting up any additional ones. The address system is currently cluttered with many new address records for Jeff Goold and Shell.

Please be assured that I have researched this and confirmed with Jeff Goold himself.

DANA Kevin

From: CLARK Liz
Sent: Tuesday, September 25, 2007 3:46 PM
To: DECK Ginny; HUNTER Laurie
Cc: ISMERIO Dawn; DANA Kevin; KORTENHOF Mike; 'BELYEA David'; 'DECK Ginny'
Subject: RE: Shell Invoicee change - 35 sites

I have been accepting these releases for Kevin Dana during the month of September because he is on vacation. I have not created QTime numbers for them. If I accept any more I will change the address before accepting them. Let me know if I should do anything else. Thanks, Liz

-----Original Message-----
From: DECK Ginny
Sent: Tuesday, September 25, 2007 3:40 PM
To: HUNTER Laurie
Cc: ISMERIO Dawn; DANA Kevin; CLARK Liz; KORTENHOF Mike; 'BELYEA David'; DECK Ginny
Subject: Shell Invoicee change - 35 sites
Importance: High

Laurie, this is big, I know. It is for me, too. Shell Oil Products has 42 or so sites that have been reported to us since August 1 with the wrong invoice address. They are still reporting sites, but we'll catch those as we review them and set them up correctly in the database and Qtime. I've attached a list of sites generated by querying the LUST database. Hopefully this is all of them. It's possible that not all of them are set up in Qtime yet, which means they're not in CRIS either. If you could note those, it would help us identify which sites we need to update before setting up Qtime numbers.

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Please be assured that I have researched this and confirmed with Jeff Goold himself.

DANA Kevin

From: CLARK Liz
Sent: Tuesday, September 25, 2007 11:39 AM
To: PAIKO Steven J
Cc: DANA Kevin
Subject: facilities 838 and 1356

Hi, I am accepting releases for Kevin while he on vacation. In looking up facility ID numbers I noticed that facilities 838 and 1356 are the same location - one listed as a Shell and the other as a Texaco. Perhaps the same facility? Thanks

Liz Clark
Department of Environmental Quality
Eastern Region, The Dalles
Solid Waste Permit Coordinator
UST Duty Officer

DANA Kevin

From: DECK Ginny
Sent: Thursday, September 20, 2007 12:41 PM
To: 'Kevin McCarthy'
Cc: DANA Kevin
Subject: RE: Invoicing address for Shell

OK. Thanks for the clarifying detail. There are so many of these that I want it to be straight before I ask the business office and Kevin Dana to make changes. We have to change each of 35 sites by hand in a few different databases as well as change the other new sites submitted online still in the queue for processing, so you can understand my concern.

For the invoices we'll use:
Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912

-----Original Message-----
From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
Sent: Thursday, September 20, 2007 12:28 PM
To: DECK Ginny
Subject: RE: Invoicing address for Shell

I have. David Kremer was Jeff's replacement while he was out on medical leave, he doesn't work in Shell business office. Adding the name just identifies who the Shell PM is for invoicing purposes.

Kevin McCarthy
Project Manager
DELTA Consultants
7150 SW Hampton, Suite 220
Tigard, OR 97223
Direct: 503.639.8098, ext.108
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

From: DECK Ginny [mailto:DECK.Ginny@deq.state.or.us]
Sent: Thursday, September 20, 2007 12:24 PM
To: Kevin McCarthy
Cc: DANA Kevin
Subject: RE: Invoicing address for Shell

Kevin, have you talked with Jeff? I don't think he wants to get the invoices. I'm sure that David Kremer is a person in the Shell business office.

-----Original Message-----
From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
Sent: Thursday, September 20, 2007 11:38 AM
To: DECK Ginny

Cc: Jeff Schatz; DANA Kevin
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

Let's move forward with that address then, it sounds more direct than the tax department PO Box. The only change would be to remove David Kremer and insert Jeff Goold. Like the example below:

Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912

Cheers, Kevin

Kevin McCarthy
Project Manager
DELTA Consultants
7150 SW Hampton, Suite 220
Tigard, OR 97223
Direct: 503.639.8098, ext.108
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

From: DECK Ginny [mailto:DECK.Ginny@deq.state.or.us]
Sent: Thursday, September 20, 2007 11:31 AM
To: Kevin McCarthy
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

Actually, we have another invoice address that we've been using that is different from the one you gave me for the Shell PO Box. What we've been using is:

Shell Oil Products – Environmental Invoice
Accounts Payable OSP 2660A- David Kremer
PO Box 4912
Houston TX 77210-4912

It is important that we have the correct information at this time to avoid unnecessary corrections to our databases and any delays in invoicing and payment. Would you please research this and verify with Shell exactly where they want their invoices sent? Thanks.

> -----Original Message-----
> **From:** Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
> **Sent:** Thursday, September 20, 2007 8:18 AM
> **To:** DECK Ginny
> **Subject:** RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374
>
> If they have going to us, that's fine, we can forward them on.
>
> Kevin McCarthy
> Project Manager
> DELTA Consultants
> 7150 SW Hampton, Suite 220
> Tigard, OR 97223
> Direct: 503.639.8098, ext.108

DANA Kevin

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Accounts Payable OSP 2660A- Jeff Goold
PO Box 4912
Houston TX 77210-4912

Cheers, Kevin

Kevin McCarthy
Project Manager
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Tigard, OR 97223
Direct: 503.639.8098, ext.108
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Direct: 503.639.8098, ext.108
Cell: 360.556.9742
Toll Free: 800.477.7411
Fax: 503.639.7619
kmccarthy@deltaenv.com

From: DECK Ginny [mailto:DECK.Ginny@deq.state.or.us]
Sent: Wednesday, September 19, 2007 5:12 PM
To: Kevin McCarthy
Cc: DANA Kevin; Jeff Schatz
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

I think our business office has been sending Shell's invoices to DELTA Environmental. Please confirm if you want us to change that and start sending invoices instead to Jeff Goold at PO Box 4369 in Houston.

I will update my sites for the RP Contact to be Jeff Goold at his address in Carson, CA, shown below, to receive correspondence other than invoices.

> -----Original Message-----
> **From:** Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
> **Sent:** Monday, September 17, 2007 1:50 PM
> **To:** DECK Ginny
> **Cc:** DANA Kevin; Jeff Schatz
> **Subject:** RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374
>
> Ginny/Kevin - Apparently we were giving you the wrong mailing address for the release reports. While the PO Box is correct for future invoicing (it is the Shell Tax Department) the initial release form and regulatory cooresponsdance should be sent to the Carson refinery, still care of Jeff Goold. Address is below. We will change this for all future release reports, but if you could make a global change for the previous ones, I would greatly appreciate it. Cheers, Kevin
>
> **Jeff Goold**
> **Shell Oil Products US**
> **20945 Wilmington Avenue**
> **Carson, CA 90810**
>
> Kevin McCarthy
> Project Manager
> DELTA Consultants
> 7150 SW Hampton, Suite 220
> Tigard, OR 97223
> Direct: 503.639.8098, ext.108
> Cell: 360.556.9742
> Toll Free: 800.477.7411
> Fax: 503.639.7619
> kmccarthy@deltaenv.com
>
> Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

DANA Kevin

From: DECK Ginny
Sent: Wednesday, September 19, 2007 5:12 PM
To: 'Kevin McCarthy'
Cc: DANA Kevin; Jeff Schatz
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20945 Wilmington Avenue
Carson, CA 90810

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7150 SW Hampton, Suite 220
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Fax: 503.639.7619
kmccarthy@deltaenv.com

Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

-----Original Message-----
From: DECK Ginny [mailto:DECK.Ginny@deq.state.or.us]
Sent: Monday, September 17, 2007 11:47 AM
To: Kevin McCarthy
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

Thanks, Kevin. Yes you are doing a lot of these! Shell must be buying a bunch of facilities. Are there more to come?

DANA Kevin

From: Kevin McCarthy [KMcCarthy@deltaenv.com]
Sent: Monday, September 17, 2007 1:50 PM
To: DECK Ginny
Cc: DANA Kevin; Jeff Schatz
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

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Thanks, Kevin. Yes you are doing a lot of these! Shell must be buying a bunch of facilities. Are there more to come?

-----Original Message-----
From: Kevin McCarthy [mailto:KMcCarthy@deltaenv.com]
Sent: Monday, September 17, 2007 11:07 AM
To: DECK Ginny
Subject: RE: OLPRR Incident Report in Accepted Status. Log Number: 20-07-1374

Ginny - Yes, your right. Sorry about that, I've been filling out so many of these I got the Shell SAP # wrong. Thanks for your patience. Cheers, Kevin

Kevin McCarthy
Project Manager

DANA Kevin

From: Oregon DEQ - Do not reply [OregonDEQ@deq.state.or.us]
Sent: Friday, September 14, 2007 4:14 PM
To: DEQTanksReviewNWR
Subject: OLPRR LUST Tank Start Notification for DEQ Staff

New LUST Incident information submitted to State of Oregon DEQ for review.

Contractor : DELTA ENVIRONMENTAL CONSULTANTS INC.
Reported by: KEVIN MCCARTHY
Phone Number: (503) 639-8098 X108

Site Name: Shell 121704
Site Address: 14951 SW Bangy Road
Site City: McMinnville
Site Zip Code: 97035

Site County: Clackamas
Received by State of Oregon DEQ : 9/14/2007 4:13:59 PM.

F

Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

March 15, 2000

TOM WILSON
EQUILON ENTERPRISES
PO BOX 2180 RM 2753C
HOUSTON TEXAS 77252-2180

Re: Exxon-Texaco Bangy Road
File No. 03-88-0034
Facility ID. No. 838

Dear Mr. Palagyi:

The Department of Environmental Quality has completed its review of the information submitted to date concerning the underground storage tank (UST) decommissioning and cleanup conducted at 14951 SW Bangy Lane in Lake Oswego, Oregon. The Department has determined that the cleanup appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-205 through 340-122-360 that were in place at the time of cleanup and that no further action is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them, including:

1. A leak from the UST systems was discovered in 1988 when free product was discovered on the groundwater in the tank nest.

2. Free product recovery was initiated in 1988 by installing a free product skimmer in the monitoring wells. Less than five gallons of product were recovered by this effort. Because free product recovery was not effective, a vapor extraction system was installed in 1989. This system was operated until 1996 when volatile organic compounds were no longer being removed by the system. Oxygen release compound was installed in two wells in 1996 to enhance natural degradation.

3. Beginning in August 1996, final compliance monitoring was initiated. No EDC, EDB or dissolved lead were detected at the site in excess of the cleanup levels in OAR 340-122-242 (the rules in place at the time of cleanup). The compliance monitoring wells for this project were monitoring wells MW-1 through MW-6. No ethylbenzene, toluene, and xylenes were detected in the groundwater in excess of their cleanup standards during the compliance monitoring. Benzene was detected at a maximum concentration of 18.6 ppm during the final eight quarters on sampling in MW-5. This detection was the only one to exceed the cleanup standard of 5 ppb. The arithmetic mean for the last six quarters of sampling was 3.57 ppm. No benzene was dectected above the cleanup level in the other wells during final compliance

monitoring. Based on these results, the Department has determined that the site has met the cleanup standard for benzene.

The Department's determination will not be applicable if new or undisclosed facts show that the cleanup does not comply with the referenced rules. The Department's determination also does not apply to any conditions at the site other than the release of the petroleum product specifically addressed in the report(s).

Please note that pursuant to OAR 340-122-360(2), a copy of your report must be retained until ten (10) years after the first transfer of the property. We recommend that a copy of this information be kept with the permanent facility records.

Your efforts to comply with the regulations to ensure that your facility has been adequately cleaned up have been appreciated. If you have any questions, please feel free to contact me at (503) 229-5474.

Sincerely,

Andree Pollock, Manager
UST Cleanup and Compliance Section

(avp:AVP)

< MORE ON BACK >

UPDATES:

PETROLEUM RELEASE FOR

Please Check All That Apply

INCIDENT INFORMATION

LOG NBR: 03-91-0057

RECEIVED BY: _____

DATE REPORTED: 2 / 6 / 91

UST FAC NBR: _____

☑ REGULATED UST
☐ NON-REGULATED UST
☐ HEATING OIL TANK

SITE NAME: Texaco Station #63-183-0074

SITE ADDRESS: _____

SITE CITY: _____ ZIP: _____

SITE COUNTY: _____ PHONE: _____

FUNDING

☑ LUST
☐ OHC
☐ HSRAF
☐ FINANCIAL ASST

☐ INVOICE START
☐ INVOICE STOP
☐ NFA SENT

PROJECT MANAGER: _____

MAIL CONTACTS

REPORTED BY

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ ZIP: _____

STATE: _____ PHONE: _____

RESPONSIBLE PARTY

NAME: Theresa Geiger

COMPANY: Equilon Enterprises LLC

ADDRESS: PO Box 2969

CITY: Kirkland ZIP: 98033

STATE: WA PHONE: _____

INVOICE CONTACT

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ ZIP: _____

STATE: _____ PHONE: _____

OTHER CONTACT(S)

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ ZIP: _____

STATE: _____ PHONE: _____

SITE ASSESSMENT

DATE DISCOVERED: ____/____/____

☐ EMERGENCY RESP.

☐ ENFORCEMENT

* 9-16-99 *

☐ FUTHER CLEANUP REQ.
☐ NO FURTHER CLEANUP REQ.
☐ OFFSITE MIGRATION

_____ L.I.P.S. SCORE (Region)

CONFIRMATION:

☐ SI) STAFF
☐ LD) LAB: DEQ
☐ LR) LAB: RP
☐ LO) LAB: OTHER
☐ RR) RP REPORT
☐ CN) CONTRACTOR
☐ OT) OTHER

DISCOVERY:

☐ RM) ROUTINE MONITORING
☐ DC) DECOMMISSIONING
☐ CP) COMPLAINT
☐ IC) INVENTORY CONTROL
☐ SA) SITE ASSESSMENT
☐ TT) TANK TEST
☐ OT) OTHER

CAUSE:

☐ TL) TANK LEAK
☐ PL) PIPE LEAK
☐ OF) OVERFILL
☐ SS) SURFACE SPILL
☐ PV) PUMP/VALVE LEAK
☐ OT) OTHER _____
☐ UN) UNKNOWN

CONTAMINANTS - IMPACTS

CONTAMINANTS:

- ☐ UG) UNLEADED GASOLINE
- ☐ LG) LEADED GASOLINE
- ☐ MG) MISC. GASOLINE
- ☐ DS) DIESEL
- ☐ FO) FUEL OIL
- ☐ WO) WASTE OIL
- ☐ LB) LUBRICANT
- ☐ SV) SOLVENT
- ☐ BF) BUNKER FUEL
- ☐ OP) OTHER PET. DIST.
- ☐ CH) CHEMICAL
- ☐ HO) HEATING OIL
- ☐ UN) UNKNOWN
- ☐ OT) OTHER _____

MEDIA/IMPACT:

- ☐ SL) SOIL
- ☐ GW) GROUNDWATER
- ☐ SW) SURFACE WATER
- ☐ DW) DRINKING WATER
- ☐ FV) FACILITY (VAPOR)
- ☐ FP) FACILITY (FREE PROD.)

SITE - MANAGEMENT

RELEASE STOPPED: 12 / 3 / 91

CLEANUP STARTED: 12 / 3 / 91

FINAL REQUEST INVOICE DATE: 5 / 18 / 99

NO FURTHER ACTION: 9 / 16 / 99

SOIL - MANAGEMENT

SWLA PERMIT NUMBER: _____

DATE ISSUED: ____/____/____

AMOUNT OF SOIL (yds 3) TREATED ON SITE: _____

AMOUNT OF SOIL (yds 3) TREATED OFF SITE: _____

TREATMENT METHOD:

- ☐ AREATION
- ☐ THERMAL
- ☐ BIOLOGICAL
- ☐ OTHER _____

AMOUNT OF SOIL (yds 3) DISPOSED OF: _____ ☐ TREATED ☐ UNTREATED

FINAL DISPOSITION OF SOIL:

- ☐ ONSITE
- ☐ LANDFILL
- ☐ ROAD BASE
- ☐ OTHER _____

NOTES/COMMENTS: _____

This Space Provided For Regional Use

◂ MORE ON BACK ▸

UPDATES: 7-24-95

* PETROLEUM RELEASE FORM *

Please Check All That Apply

INCIDENT INFORMATION

LOG NBR: 03-88-034 RECEIVED BY: Peters

UST FAC NBR: 438 DATE REPORTED: 4-29-88

SITE NAME: Exxon Station

SITE ADDRESS: 14951 SW Bangy Lane

SITE CITY: Lake Oswego ZIP: 97034

SITE COUNTY: Clack PHONE:

☐ REGULATED UST
☐ NON-REGULATED UST
☐ HEATING OIL TANK

FUNDING

☐ LUST ☐ HSRAF
☐ OHC ☐ FINANCIAL ASST

PROJECT MANAGER:

☐ INVOICE START ☐ INVOICE STOP
LTR. AGR. ☐ NFA SENT
DATE:

108

MAIL CONTACTS

REPORTED BY

NAME: Dennis Buck
COMPANY: Exxon USA
ADDRESS: PO Box 3527
CITY: Bellevue ZIP: 98009-1
STATE: WA PHONE: 206 453-4518

RESPONSIBLE PARTY

NAME: TOM WILSON
COMPANY: EQUILON ENTERPRISES LLC.
ADDRESS: PO BOX 2180, RM 2753C
CITY: HOUSTON ZIP: 77252-2180
STATE: PHONE:

INVOICE CONTACT

NAME: RP.
COMPANY:
ADDRESS:
CITY: ZIP:
STATE: PHONE:

OTHER CONTACT(S)

NAME:
COMPANY:
ADDRESS:
CITY: ZIP:
STATE: PHONE:

SITE ASSESSMENT

DATE DISCOVERED: 4-27-88

☐ EMERGENCY RESP.
☐ ENFORCEMENT

☐ FURTHER CLEANUP REQ.
☐ NO FURTHER CLEANUP REQ.
☐ OFFSITE MIGRATION
_____ L.I.P.S. SCORE (Region)

X 03-15-00 X

CONFIRMATION:

☐ SI) STAFF
☐ LD) LAB:DEQ
☒ LR) LAB:RP
☐ LO) LAB:OTHER
☐ RR) RP REPORT
☐ CN) CONTRACTOR
☐ OT) OTHER

DISCOVERY:

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☐ DC) DECOMMISSIONING
☐ CP) COMPLAINT
☐ IC) INVENTORY CONTROL
☒ SA) SITE ASSESSMENT
☐ TT) TANK TEST
☐ OT) OTHER

CAUSE:

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☐ PL) PIPE LEAK
☐ OF) OVERFILL
☐ SS) SURFACE SPILL
☐ PV) PUMP/VALVE LEAK
☐ OT) OTHER
☒ UN) UNKNOWN

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- ☐ LG) LEADED GASOLINE
- ☒ MG) MISC. GASOLINE
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- ☐ OP) OTHER PET. DIST.
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- ☐ OT) OTHER _____

MEDIA/IMPACT:

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- ☒ GW) GROUNDWATER
- ☐ SW) SURFACE WATER
- ☐ DW) DRINKING WATER
- ☐ FV) FACILITY (VAPOR)
- ☐ FP) FACILITY (FREE PROD)

SITE - SOIL MANAGEMENT

RELEASE STOPPED: 4-29-88

CLEANUP STARTED: 6-19-88

REMEDIATION COMPLETED: 12-21-99

NO FURTHER ACTION: 3-15-00

SWLA PERMIT NUMBER: _____

DATE ISSUED: _____

AMOUNT OF SOIL (yds3) TREATED ON SITE: _____

AMOUNT OF SOIL (yds3) TREATED OFF SITE: _____

TREATMENT METHOD:

- ☐ AREATION
- ☐ THERMAL
- ☐ BIOLOGICAL
- ☐ OTHER _____

AMOUNT OF SOIL (yds3) DISPOSED OF: _____ ☐ TREATED ☐ UNTREATED

FINAL DISPOSITION OF SOIL:

- ☐ ONSITE
- ☐ LANDFILL
- ☐ ROAD BASE
- ☐ OTHER _____

NOTES/COMMENTS: _____

This Space Provided For Regional Use