APPENDIX B
BUILDING PLANS

Subject Property

Footing 24" wide, 30" Deep continuous Reinforced as above

6" reinforced conc. over sump 3/8"ϕ bars 6" O.C. both ways

4'-0" x 4'-0" x 10'-6" Sump

Manhole

8" conc. wall

2 doors 5'-6" x 16'-0" x 2¼"

Ramp down 2½ per ft.

30'-0"

8" conc. wall 3'-0" above ramp floor

Boiler Room 6" Conc. Floor

4'-0" x 7'-0" x 2¼" Metal clad self closing

2 8'-0" x 8'-0" Metal clad slide doors

Footing 12" x 24"

Conc. wall above 12" ϕ @ 18" both ways

3'-0" x 8'-6" Flue

3½" conc. floor

Dis. cab.

All interior basmt. cols. 24" Oct. Footings 5'-0" x 5'-0" x 2'-0"

8 - ½" ϕ vert. ¼" ϕ ties @ 8" O.C. Stubs 8 - ½" ϕ @ 3'-0"

Opening in ceiling

6" x 12" Footing

Footings 24" Wide, 30" Deep continuous Reinforced as shown on detail

5'-0" x 5'-0" x 2'-0"

Footing

Conc. floor in basement

Footings 5'-0" x 5'-0" x 2'-0"

8" conc. wall

Property line

All basement columns on this side 15'-11½" W.P.

128'-0"

First story columns 1 to 7 inclusive, 14, 15, 28, 29, 42, 43
20" x 20"
4 - ⅞" ϕ vertical
¼" ϕ ties @ 8" O.C.

Exterior basement columns
24" x 24" 4 - ⅝" ϕ
¼" ϕ ties @ 8" O.C.

BASEMENT PLAN

scale ⅛" = 1'-0"

DESIGN № 2966

V. W. Voorhees Architect & Engineer
Eitel Bldg. Seattle, Wash.

FLOOR PLAN

scale 1/8" - 1'-0"

DESIGN Nº 2966

V.W. Voorhees Architect & Engineer
Alta Bldg. Seattle, Wash.

S+R

3

Ladies Rest Room

Ladies toilet

Floor slope 1/4" to 1'-0"

4" Drain

2½" drain to gutters

Flush with floor

Boiler Room

Floor down 1/2 to 1'-0"

4" Drain

2½" Drain to gutter

Work Room

Down

Boiler mason

1/2" Floor drain

Men's Toilet

Store Room

Metal clad self closing

Self closing Metal Door 6'2 8-0

Removable

Down Spout

Landing

Existing

Future Elevator 5'6" x 5'-0"

Reinforced Conc. Slab

Floor down 1/2 to 1'-2"

Section

3" 1"

Floor line

6"

4" C.I. Drain

Duplex hanger

4"x6"

10"x10" Post

2"x4" railing

4"x4" Post

3"x6" T. & G.

1" Fir Finished Floor

3'-0" x 7'-0" x 1 3/8" Self closing metal clad

6"x6" Post

4"x12" carriages under

6"x6" posts under

Balcony Framing Plan

2'x2'x2' Gl. Sump

Garage

Metal Sash 4'-0 3/8" x 3'-5 3/8" Gravity Hung

3"x6" T. & G.

1" Fir Finished floor

6"x6" Girder

6" Corbel

6"x6" Posts

8'-2"

Balcony Section

Balcony Railing

PLAN SHOWING SEWER OUTLETS, BALCONY & GUTTERS

Scale 1/8" = 1'-0"

DESIGN No 2966

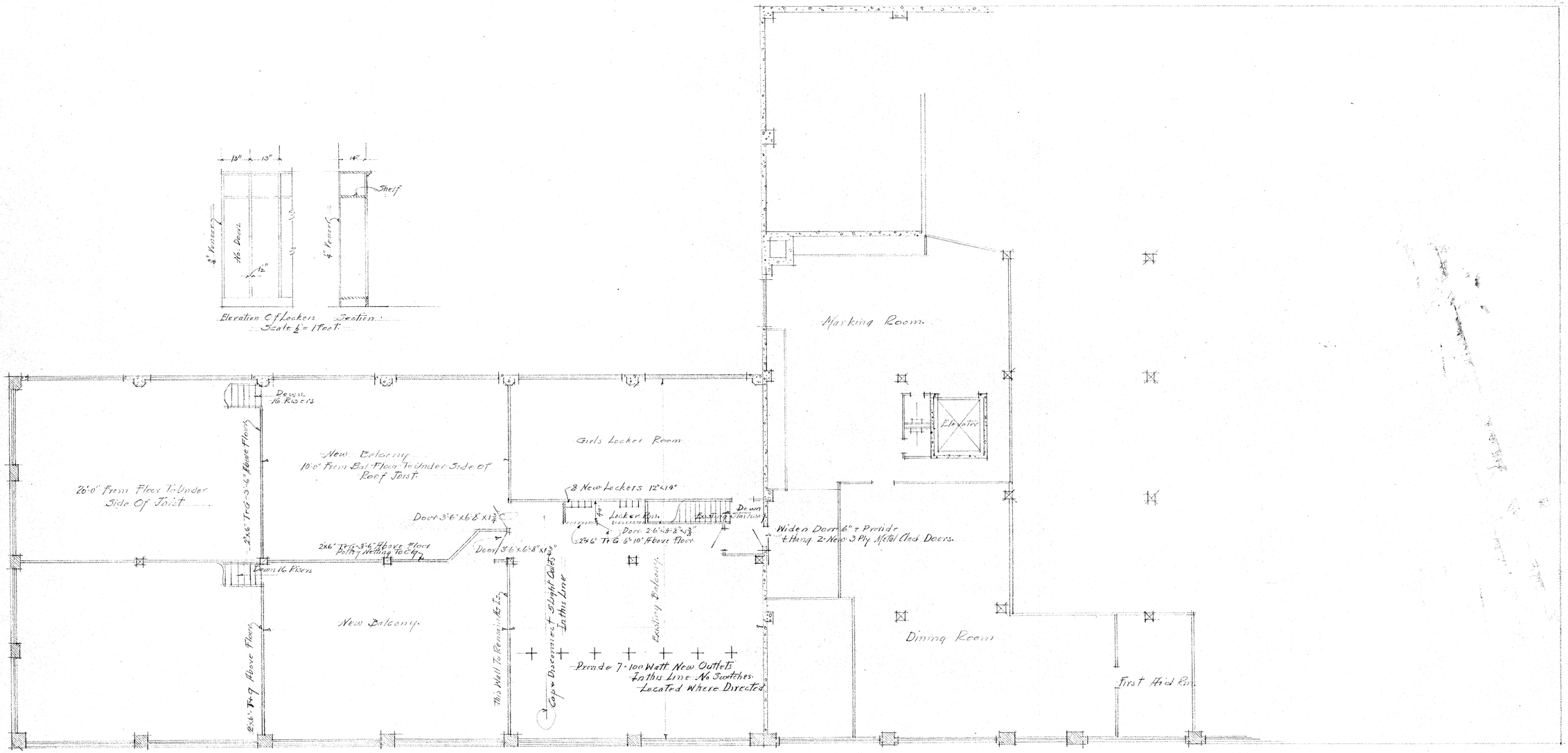
V. W. Voorhees, Architect & Engineer

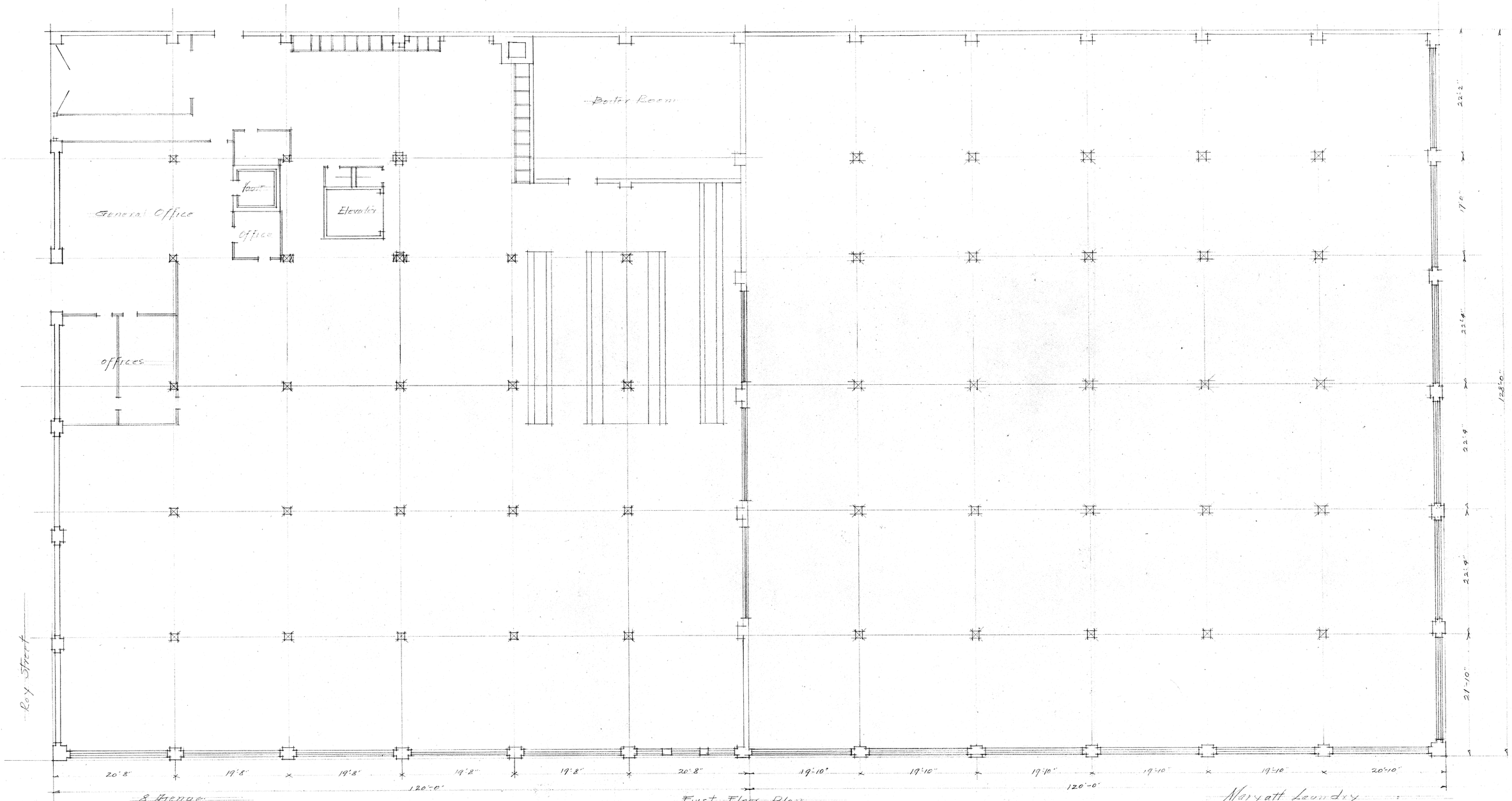
Eitel Bldg Seattle, Wash.

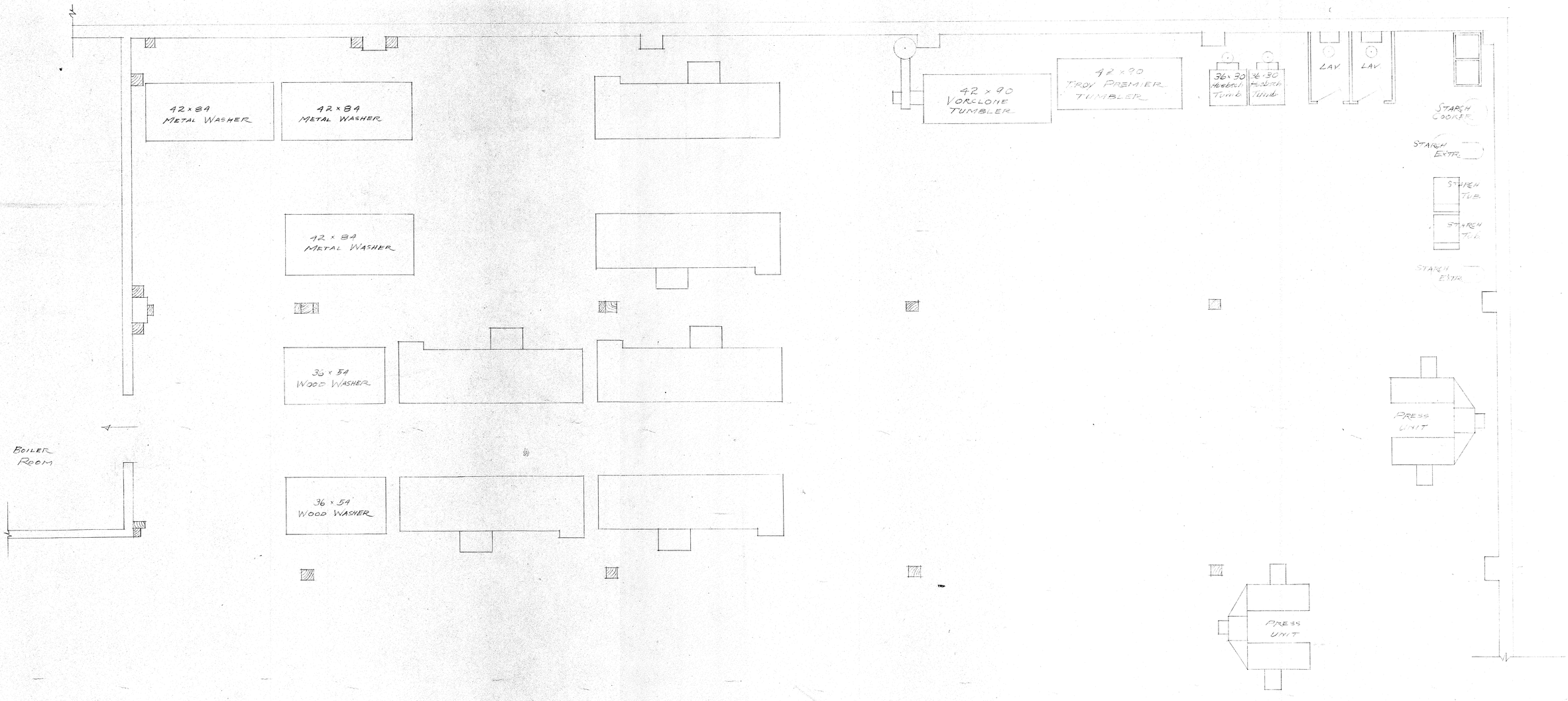
Standley & Robinson

By A. M. Standley

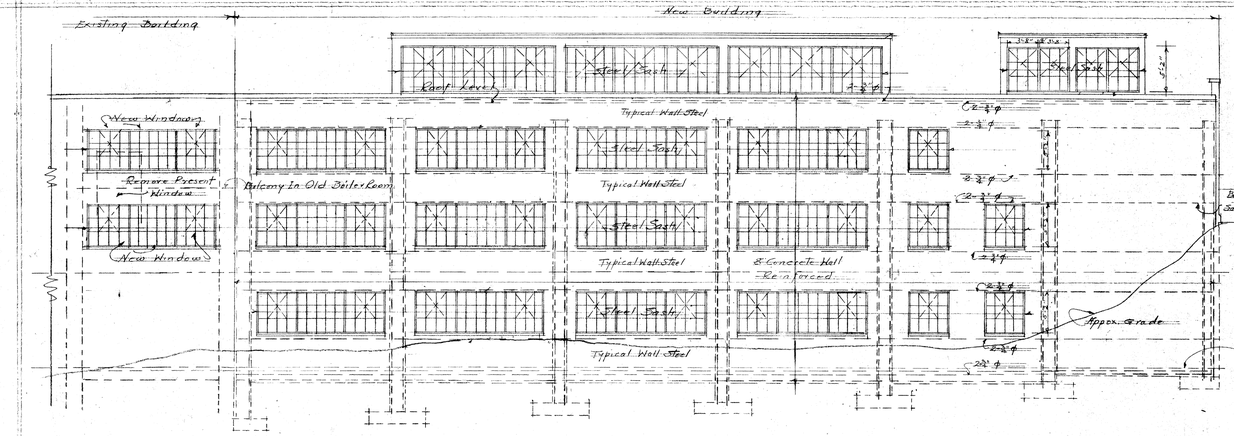
Mgr.


13"
13"
14"
Shelf
No. Doors
½"
¾" Veneers
4" Veneers
Elevation C.f Lockers
Section
Scale ½" = 1 Foot
Marking Room
Elevator
Down 16 Risers
Girls Locker Room
New Balcony
10'-0" From Bal. Floor To Under Side of Roof Joist
26'-0" From Floor To Under Side Of Joist
8 New Lockers 12"x14"
Locker Rm.
Down To Floor Below
Door 3'-6"x6'-8"x1¾"
Door 2'-6"x6'-8"x1¾"
2x6" Trg 6'-10" Above Floor
Widen Door 6" + Provide + Hang 2 New 3 Ply Metal Clad Doors.
2x6" Trg 3'-3½" Above Floor Joists
Down 16 Risers
New Balcony
Existing Balcony
This Wall To Remain No Openings
Cap + Disconnect & Slight Changes In This Line
Provide 7-100 Watt New Outlets In This Line No Switches Located Where Directed
Dining Room
First Aid Rm.
Dexter Avenue
Roy Street
Roy Street
Balcony Floor Plan
Scale ¼" = 1 Foot
Norgett Laundry Owners
VW Voorhees Architect
July 16-40
#3095


Boiler Room
General Office
Vault
Office
Elevator
offices
Roy Street
20'8"
19'8"
19'8"
19'8"
19'8"
19'8"
20'8"
120'-0"
19'-10"
19'-10"
19'-10"
19'-10"
19'-10"
20'-10"
120'-0"
22'2"
17'0"
22'4"
22'9"
22'8"
21'-10"
128'0"
8 Avenue
First Floor Plan
Scale 1/8" = 1 Foot
Maryatt Laundry
W. Voorhees Architect

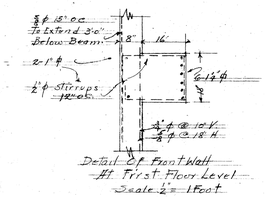


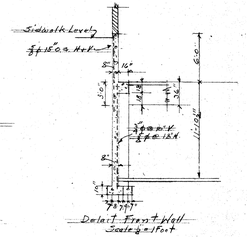
American Linen Supply Co
Seattle Wash
DWG 46112 A 6/27/46
Geo W Hilton Archt

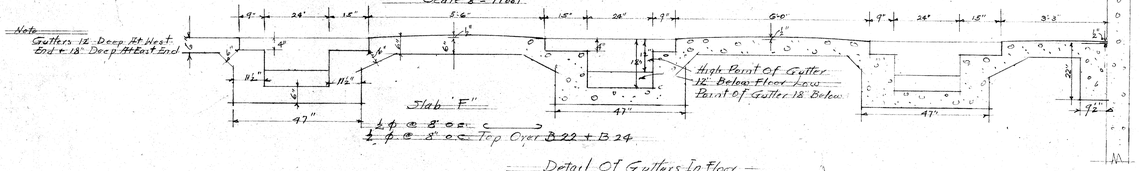


North Side Of Present Boiler Room

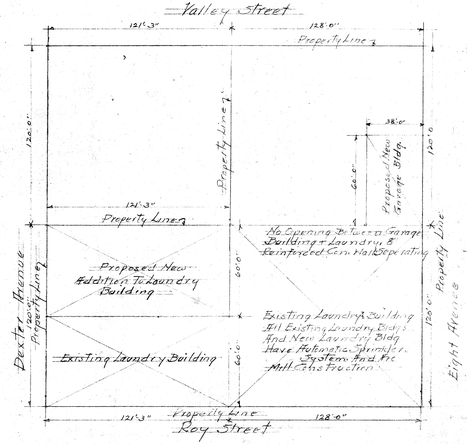
North Side Elevation
Scale 1/8" = 1 Foot

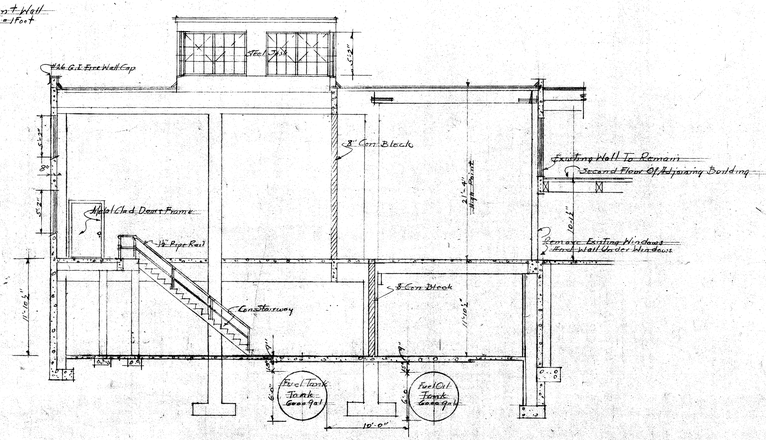




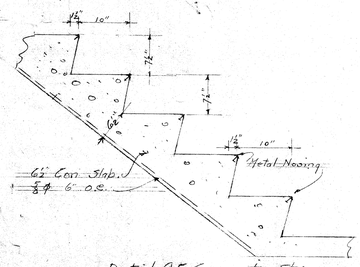


Detail Of Gutters In Floor In Floor Over Old Boiler Room
Scale 1/2" = 1 Foot





Wall Section Through Boiler Room
Scale 3/8" = 1 Foot



Detail Of Concrete Stairway
Scale 1" = 1 Foot

American Linen Supply Co. Owners
Laundry Building at 5th & Roy Street & Dexter Ave
Seattle Washington
K.W. Yoorhees Architect
April 10-1927

Sheet #1

Roy Street

Existing Building

Changes In Bldg

Eight Avenue

Concrete

10'-0"

4" Gravel

New Driveway

Concrete

Concrete

Plot Plan

Existing Windows

Con Wall + Floor To Be Removed

Existing Door To Be Removed New 10" Con Wall

New Floor + Beams

2-3" ϕ

½ ϕ 2 ways

Steel Sash Wire Glass

Remove Wood Balcony Posts etc

Remove Con. Wall To First Floor Level

Hinged At Bottom To Swing In

Remove Present Con Slab ~~Steps~~ & Construct New Slab at First Floor Level

Remove Con Wall To First Floor Level

10" Reinforced Con Wall

24"x30" Reinforced Con Footing

First Floor Plan

Eight Avenue Elevation Showing Door Removed And New Window

Scale ¼" = 1 Foot

Bend Stirrups In Existing Wall To Be Removed Down Into New Slab

2'-6" | 6'-8" | 2'-6"

½ ϕ 10" o.c. Tp

¾ ϕ 18" o.c.

¾" Bolt Cast + Washer 30" Long 4'-0" o.c.

½ ϕ 10" o.c.

Existing 8" Con. Wall

Beam 8" x 24"

2-1¼" ϕ

2-1" ϕ Deck Rods

8-¾" - 4'-0" o.c. - 30@12" EE

Section B-B

Scale 4" = 1 Foot

Remove Present Con. Floor

⅜" ϕ Stirrups 12" o.c.

Remove Present Con. Walls

Bend Stirrups Down Into New Slab

2"

5-¾" ϕ In old Slab ~~New Slab~~

Chip Existing Beam

Existing Slab

New Con Slab

New Beam 8"x20"

Existing Beam 24"x20"

New 10" Con Wall

Remove Con Railing

Remove Con Ramp

New 5" Reinforced Con Floor

Existing 24"x30" Reinforced Con Footing

Section "A-a"

Scale ¼" = 1 Foot

21 20 19 18

8 9 10 11 12

14'-8"

8th Avenue

20'-8"

Remove Wall

10"

Remove Existing Ramp To Basement

New 10" Con Wall + Pier. Remove Doors

New 5" Reinforced Con. Floor Ft Bas. Floor Level.

½ ϕ 12" o.c. 2 Ways.

Cut Opening In 8" Con. Wall

2-Doors 3'-6" x 9'-6" x 2¼" Use Old Doors + Hardware.

7 6 5 4 3

21'-10" 22'-4" 22'-4"

North Wall Of Building

Basement Floor Plan

Scale ⅛" = 1 Foot

Concrete 5" Thick. ½ ϕ 12" o.c. 2 Ways.

12'-0"

Gravel To Street

New Con Beam

3-½ ϕ

New Beam 8"x20"

Existing Con Beam 24"x20"

3-1¼ ϕ Bent 3-1¼ ϕ ⊥

13-⅜" Stirrups Wall End

21-⅜" Stirrups Col End.

New 10" Con Wall

Existing Opening In First Floor Slab Sump 24" Wide

Cover ¼" Checker Steel Plate 24"x30" Connected To Sewer + Vented

New Beam 8"x20"

21'-8"

13'-0"

a a

B B

7 6 5 4 3

21'-10" 22'-4" 22'-4"

Basement Floor Framing Plan

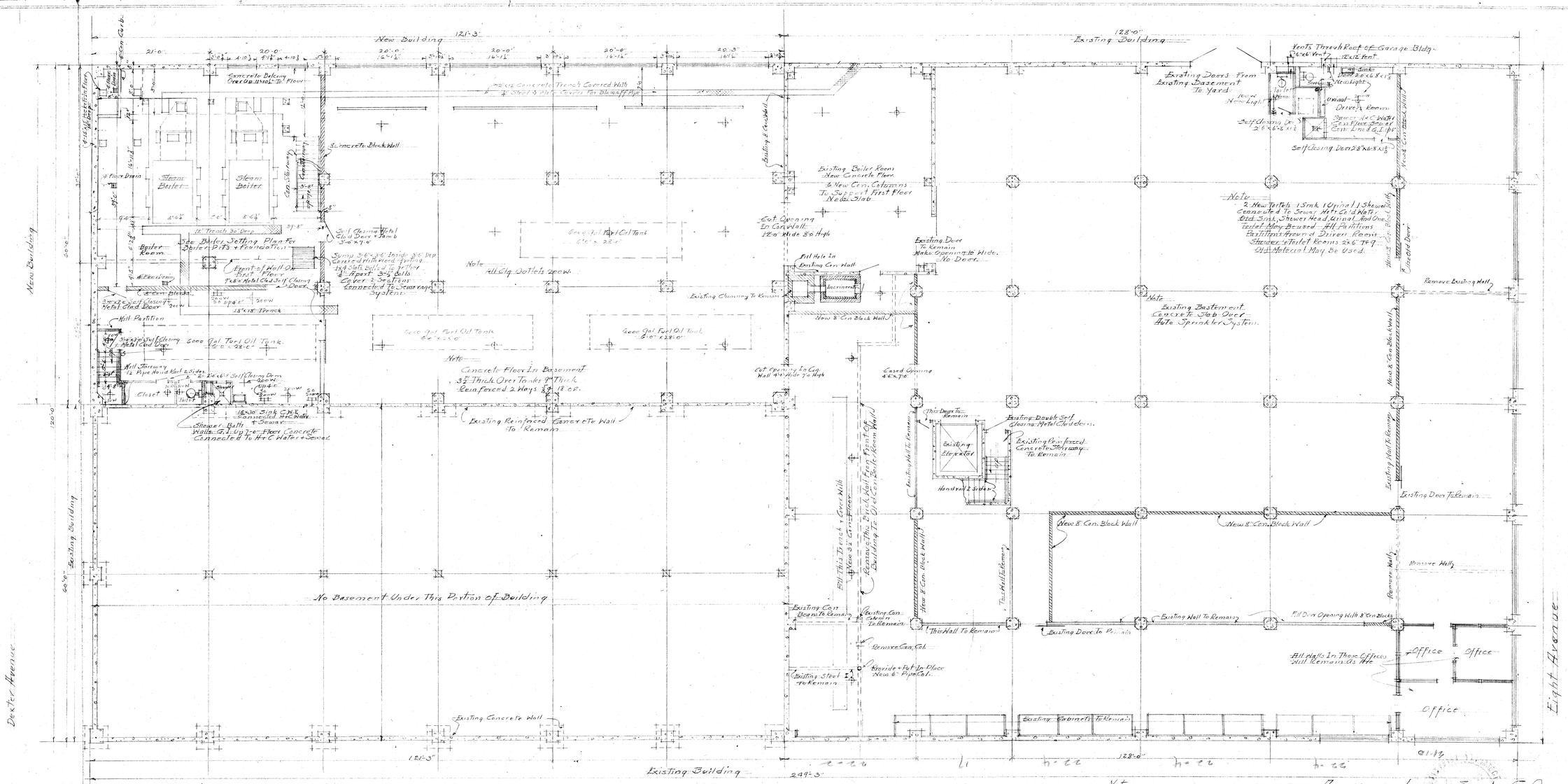
Scale ⅛" = 1 Foot

Plan Showing Chanes On First Floor And Balcony Of Bldg At 8th Ave + Roy Street

American Linen Supply Co Owners

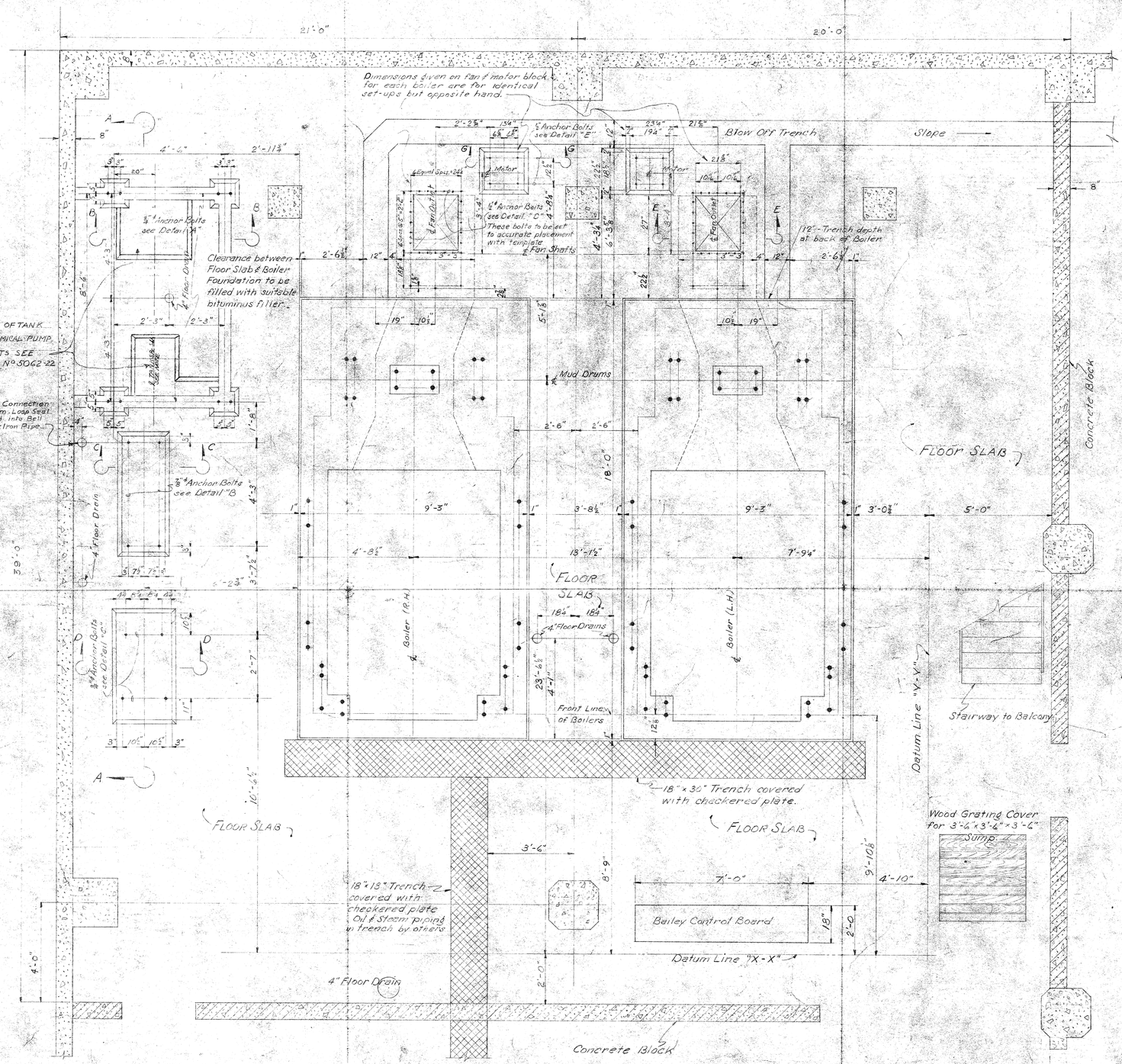
H.H. Voorhees Architect

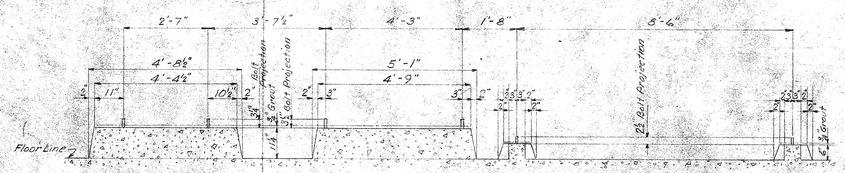
STATE OF WASHINGTON

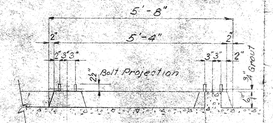

New Building 121'-3"
Existing Building 128'-0"
Existing Building 249'-3"
New Building
Existing Building
Dexter Avenue
Eight Avenue
Roy Street
Steam Boiler
Steam Boiler
Boiler Room
Closet
Toilet
Shower
Office
Office
Office
No Basement Under This Portion of Building
Concrete Floor In Basement, 3½" Thick Over Tanks 9" Thick, Reinforced 2 Ways
Existing Reinforced Concrete Wall To Remain
Existing Concrete Wall
Existing Building
Existing Boiler Room New Concrete Floor & New Conc. Columns To Support First Floor New Slab
Existing Basement Concrete Slab Over Note Sprinkler System.
Existing Doors From Existing Basement To Yard
Vents Through Roof of Garage Bldg.
Existing Door To Remain
Existing Double Self Closing Metal Clad Doors
Existing Reinforced Concrete Stairway To Remain
Existing Elevator
Existing Cabinets To Remain
New 8" Con. Block Wall
Existing Wall To Remain
Existing Door To Remain
Fill Door Opening With 8" Con. Blocks
Remove Existing Wall
Remove Walls
All Walls In These Offices Will Remain As Are
Note
Shower Added June 26-47
American Linen Supply Co Owners.
Laundry Building At 818-22 Roy St & Dexter Ave.
Seattle Wash. Mater.
V. W. Voorhees Architect
April 10-1947 Sheet # 4
Basement Floor Plan
Scale ⅛" = 1 Foot

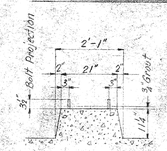
BILL OF MATERIAL

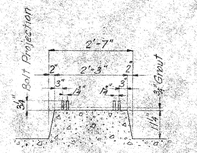
MARK	QUANTITY	SIZE	DESCRIPTION	MAT'L	REMARKS
201	4	¾"	Anchor Bolt Assembly	Steel	see Detail "A"
202	4	⅞"	do do do		do do "B"
203	4	¾"	do do do		do do "C"
204	54	½"	do do do		do do "D"
205	8	½"	do do do		do do "E"

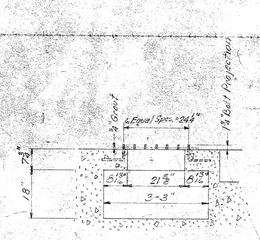


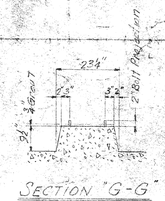


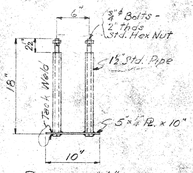


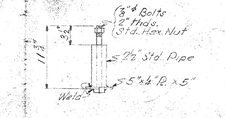


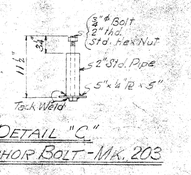


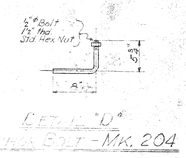


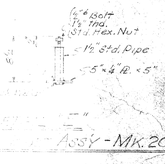












References:

Western Blower Co. "Heavy Duty Fan" Dwg. No. M-1505
The Weinman Pump Mfg. Co. Dwg. No. 314
Lerman Mfg. Co., McGowan Pump Div. Dwg. No. B-4228
General Electric Co. Std. Dim. Sheet GEM 860 Fr. 254
C.C.M. Co. Dwg. No. 5062-1 "Arrgmnt. of Boiler House"
do do do do do -3 "Detail of Boiler Foundation"
do do do do do -9 "Storage Tank Platform"
do do do do do -22 "Detail of Chemical Set & Tank Slabs."

THIS IS A TEMPLATE DRAWING
AND IS ONLY TO BE USED FOR LOCATION OF ANCHOR BOLTS AND DETAILS INDICATED AND DIMENSIONED, WHICH MUST BE ADHERED TO. STRUCTURAL DESIGN OF FOUNDATION NOT BY C. C. MOORE & CO. ENGINEERS

THIS PRINT NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS ENDORSED HERE.
DATE [redacted] BY [redacted]

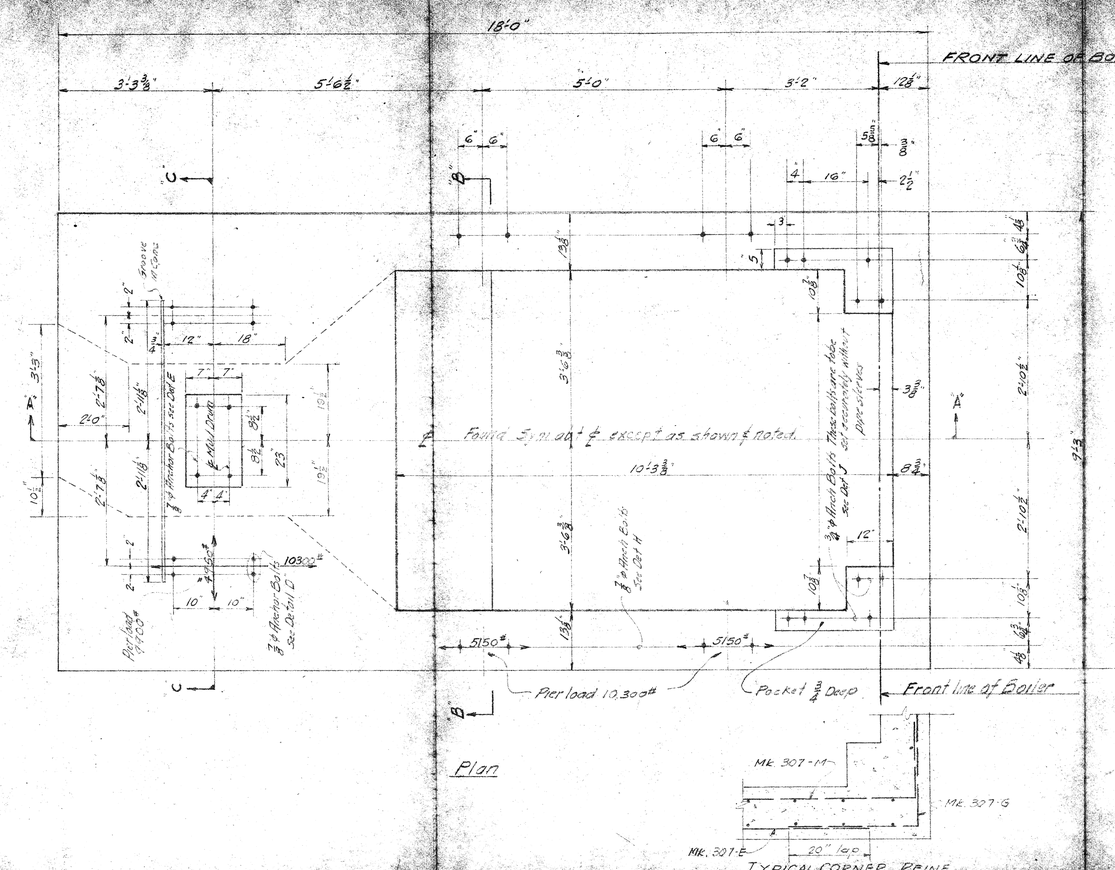
Boiler Room Arrangement Floor Plan & Details

American Linen Supply Co. Seattle Wash.

C. C. MOORE & CO. ENGINEERS
INCORPORATED
PORTLAND, VANCOUVER, B.C., PHOENIX, LOS ANGELES, SEATTLE, MAIN OFFICE: SAN FRANCISCO, HONOLULU, T.H.

DRAWN BY W.b.d. SCALE ½"=1'-0" APPROVED
CHECKED BY P.S.T. DATE 6-14-47
ENG. DEPT. FILE NO. E-392 DRAWING NUMBER 5062-21

REVISIONS																							
B	Moved Boilers 6" forward	DATE 7-28-47 CH'K'D	C	Add. Equip. located and anchor bolt Details added	DATE 8-4-47 CH'K'D P.S.W	D	Added Loop Seal Drain Connection Revised Curbing Under F.W. Storage Tank	DATE 8-13-47 CH'K'D P.S.W	E	ADDED OUTLINE OF TANK SLABS AND REFERENCE NOTE TO 5062-22	DATE 12-10-47 CH'K'D D.S.T	F		DATE CH'K'D	G		DATE CH'K'D						


18'-0"
FRONT LINE OF BOILER
3'-3 3/8"
5'-6 1/8"
5'-0"
3'-2"
12 1/4"
Groove in Conc.
12"
18"
7"
7"
3/4" Anchor Bolts to set in Templ.
Pocket 4 1/2" Deep
Pocket 3 1/2" Deep

PRESENT BOILER ROOM

42 X 84 METAL WASHER

42 X 84 METAL WASHER

SOAP

36 X 72 WOOD WASHER

36 X 36 WOOD WASHER

PROSPERITY JR. WASHER

26" EXTR.

26" EXTR.

30" EXTR.

BERGER EXTR.

42 X 30 TROY PREMIER TUMBLER

36 X 30 HUEBSCH TUMBLERS

LAV.

42 X 84 METAL WASHER

VALHALLA BLEACH MACH.

44 X 84 TROY WASHER

36 X 84 WOOD WASHER

CUTTER END

"SIX 42 X 84 CASCADE UNLOADING WASHERS WITH AUTO. CONTROL"

CUTTER END

54" NOTRUX EXTR.

72" PURKETT TUMBLERS

CHUTES

CHUTES

FEED TABLES

120" ROYAL CALENDAR

120" ROYAL CALENDAR

6 ROLL TROY

6 ROLL SYLON

LAV.

ELEVATOR

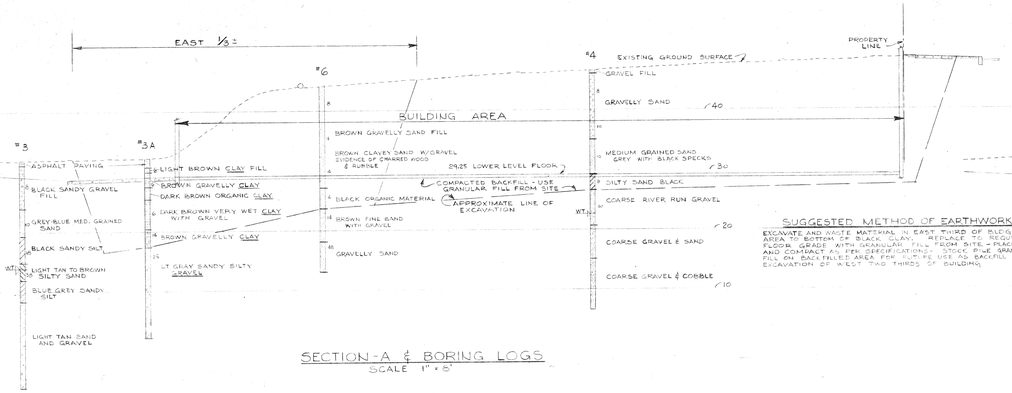
UP STAIRWAY

PASSAGEWAY

RECEIVING AREA

OFFICE SPACE

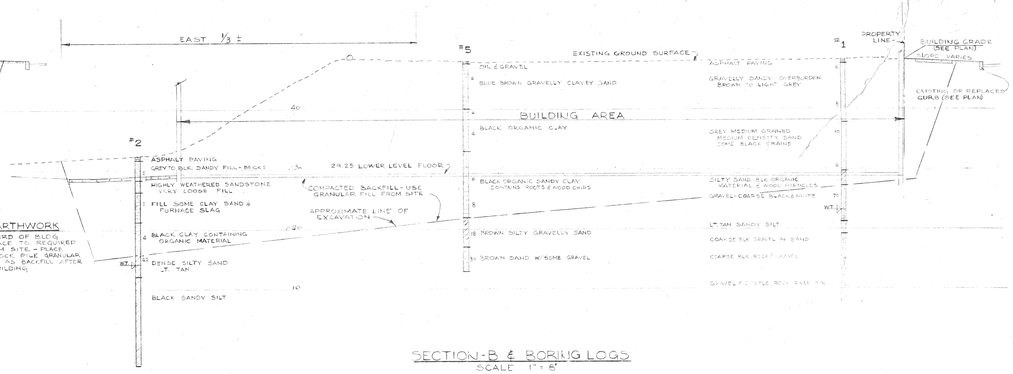
AMERICAN LINEN SUPPLY
SEATTLE, WASH.
DRWG. NO. 47-14
NOV 13, 1947



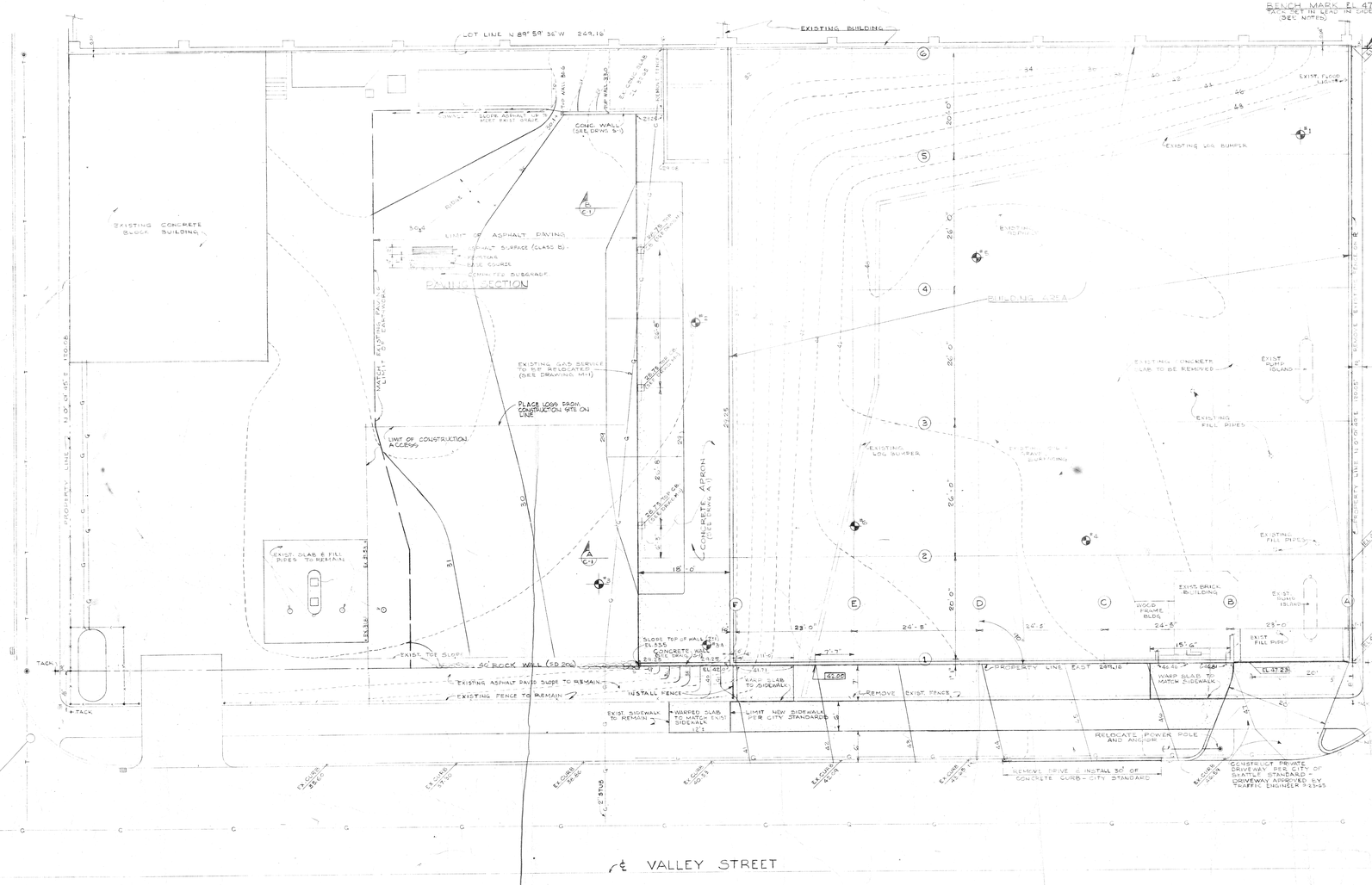
SECTION-A & BORING LOGS
SCALE 1" = 8'

SUGGESTED METHOD OF EARTHWORK

EXCAVATE AND WASTE MATERIAL IN EAST THIRD OF BLDG. AREA TO BOTTOM OF BLACK CLAY. REPLACE TO REQUIRED FLOOR GRADE WITH GRANULAR FILL FROM SITE - PLACE AND COMPACT AS PER SPECIFICATIONS. STOCK PILE GRANULAR FILL ON BACKFILLED AREA FOR FUTURE USE AS BACKFILL AFTER EXCAVATION OF WEST TWO THIRDS OF BUILDING.



SECTION-B & BORING LOGS
SCALE 1" = 8'


BENCH MARK EL 47.73
(SEE NOTES)
LOT LINE N 89° 58' 36" W 249.16
EXISTING BUILDING
EXISTING CONCRETE BLOCK BUILDING
CONC. WALL (SEE DRWG S-1)
SLOPE ASPHALT UP TO MEET EXIST GRADE
LIMIT OF ASPHALT PAVING
ASPHALT SURFACE (CLASS B)
VERTICAL
BASE COURSE
COMPACTED SUBGRADE
PAVING SECTION
EXISTING GAS SERVICE TO BE RELOCATED (SEE DRAWING M-1)
PLACE LOGS FROM CONSTRUCTION SITE ON LINE
LIMIT OF CONSTRUCTION ACCESS
MATCH EXISTING PAVING
CONCRETE APRON PER CITY STD.
EXIST. SLAB & FILL PIPES TO REMAIN
EXIST. TOP OF SLOPE
TACK
50' ROCK WALL (SD 206)
EXISTING ASPHALT PAVED SLOPE TO REMAIN
EXISTING FENCE TO REMAIN
INSTALL FENCE
SLOPE TOP OF WALL (TYP.) EL 53.0
CONCRETE WALL SEE DRWG S-1
EL 46.0
EL 45.29
61.71
WARP SLAB TO SIDEWALK
REMOVE EXIST. FENCE
EXIST. SIDEWALK TO REMAIN
WARPED SLAB TO MATCH EXIST SIDEWALK
LIMIT NEW SIDEWALK PER CITY STANDARDS
PROPERTY LINE EAST 249.16
EL 47.23
WARP SLAB TO MATCH SIDEWALK
RELOCATE POWER POLE AND ANCHOR
REMOVE, DRIVE & INSTALL 30' OF CONCRETE CURB - CITY STANDARD
CONSTRUCT PRIVATE DRIVEWAY PER CITY OF SEATTLE STANDARD DRIVEWAY APPROVED BY TRAFFIC ENGINEER 9-23-65
EXISTING CURB
NEW CURB
EXISTING CONCRETE SLAB TO BE REMOVED
EXIST. BRICK BUILDING
WOOD FRAME BLDG.
EXIST. PUMP ISLAND
EXIST. FILL PIPES
EXISTING LOG BUMPER
EXISTING CONC. SLAB TO BE REMOVED
BUILDING AREA
EXIST. FLOOD LIGHT
EXIST. POWER POLE
EXIST. WATER VALVE
EXIST. GAS VALVE
EXIST. WATER METER
EXIST. GAS METER
EXIST. TELEPHONE PEDESTAL
EXIST. TELEPHONE MANHOLE
EXIST. POWER MANHOLE
EXIST. CATCH BASIN
EXIST. 2" STUB
EXIST. 6" WATER MAIN
EXIST. 8" SEWER
EXIST. 12" WATER MAIN
EXIST. 6" GAS MAIN
EXIST. 4" GAS MAIN
EXIST. 8" WATER MAIN
EXIST. 8" SEWER MAIN
EXIST. 6" GAS MAIN
EXIST. 4" GAS MAIN
EXIST. 8" WATER MAIN
EXIST. 8" SEWER MAIN
EXIST. 6" GAS MAIN
EXIST. 4" GAS MAIN
EXIST. 12

ROY STREET

8TH AVE. NO

DEXTER AVENUE

VALLEY STREET

REMOVE EXISTING METAL MACHINE

OFFICE NO 1

REMOVE EXISTING PARTITIONS AS INDICATED

OFFICE NO 2

TEL. OFFICE

REMOVE SIDE PART

ADMINISTRATION

WASHING

EXISTING LAUNDRY PLANT TYPE III MILL CONSTRUCTION

10"x10" WD POSTS 6"x18" ROOF JOINT W/ 3"x6" T&G ROOF DECKING.

SPRINKLERED THROUGHOUT.

NOTE: NO DRY CLEANING IS PERFORMED IN EXIST. FACILITY

WASHING

IRONING

UPPER PORTION EXISTING BOILER RM.

EXIST. OPERABLE SASH FOR VENTILATION & COMBUSTION AIR.

REMOVE EXIST. MAX. ALLOW. LOAD SIGNS THIS AREA. POST W/NEW SIGNS READING:

MAXIMUM ALLOWABLE LIVE LOAD 250 LBS PER SQ. FT.

REMOVE EXIST. STEEL SASH, CONC. SILL, HEAD & SPANDREL THERE 4 BAYS UP TO WEIGHT AS SHOWN ON SECTION & SHEET A-6. PATCH & POINT JAMBS AS REQUIRED TO PROVIDE FINISHED OPENING BETWEEN EXIST. PLANT & NEW ADDITION.

METAL EXPANSION PLATES SEE DETAILS SHEET A-3

EXP. JOINT

8" CONC. WALL

EIN. CONC SLAB FLOOR TO MATCH ELEVATION OF FIRST FLOOR OF EXIST. BUILDING.

REMOVE EXIST. SASH IN BOILER RM & SEAL OPENINGS W/ 8" CONC BLOCK

NEW ADDITION.

9½" CONC. SLAB FLOOR. EL. 41.75

20# CONC. COLS. 20'x20'x8" CONC. COLS.

FLAT SLAB CONSTRUCTION - EXPOSED CONC. CEILING

SPRINKLERED THROUGHOUT

PROVIDE TWO 6'-0" PIPE SLEEVES THROUGH EACH COLUMN CAP TO PERMIT INSTALLATION OF FUTURE PIPE WORK UP FROM BASEMENT LEVEL.

HIGH BAY AREA - DRY CLEANING PLANT NON INFLAMMABLE SOLVENTS/LIQUIDS

101

5'0" PIPE SLEEVE

DET (4) TYP PIPE SLEEVE

SCALE: 1/2" = 1'-0"

LINE OF MEZZANINE ABOVE

FACE OF MEZZ. WALL ≡ 20822-A "Terra Leopard" matte gray finish. Paint: Lambert Stain T-22665

COLS & GIRDERS FROM MEZZ. TO COL. HEADING ≡ 20872-A "Terra Leopard"

TWO 5'-0" PIPE SLEEVES THROUGH EACH COLUMN CAP

CEILING ≡ 20021-C "Chalk"

8'-6" CEIL.

EXPOSED HEADROOM VARIES

RAMP ABOVE

RESTRICTED HEADROOM

RESTRICTED HEADROOM THIS AREA

WOMEN 107

MEN 106

STAIR NO1 SEE DWG A-6

CHUTE NO 1

CHUTE NO 2

TRENCH DRAIN

NEW SECTION OF CHAIN LINK FENCING TO MATCH EXISTING

4" CONC SLAB WASHED TO REST CITY SIDEWALK

6'-0" WIDE CITY SIDEWALK

EXP. JT.

24'-5" 24'-5" 24'-5" 23'-0"

EQUAL SPACES = 22'-9" M.O.

FIRST FLOOR PLAN

SCALE 1/8"=1'-0"

ROOF OF EXIST. GARAGE BLDG

SEALANT

HP ROOF

EXIST. EL.

14'-9½" TO BASSMT EL.

CONT. MET. FLASH. INTO CONC. BUK BEHIND

L2C20.7 FASTENED TO TRANSFORMER 2M. EAST CONCIVALL W/ 2-¾Ø @ 4'-0" C-C

DET (13) MARQUEE AT TRANSF. VAULT

SCALE: 1/8"=1'-0"

MARQUEE DETAIL -

SCALE 1½"=1'-0"

1¼" Ø STEEL 2017 W/PIPE SCREW ENDS - PROVIDE ¾" Ø CLEVISE AT EACH END OF CORD W/ 1" Ø PIN @ EACH CLEVISE CONNECTION.

GRIDS 1 THRU 4

CONC. PLAS.

SLOPE TO DRAIN ⅛" PT.

BUILT-UP ROOFING OVER 1" RIGID INSUL. OVER TYPE E MET. DECK

SEALANT FLASHING

EIN. FL.

1" PLATE COPING

12 L 20.7

6"x3½"x ⅜ CONT.

4"x3½"x ⅜ CONT. W/ ¾Ø A.B. x 1'-4" @ 2'-6" O.C.

PROVIDE 18"x18"x18" Ø RT. COL FACE 25 DETAIL 5A/S6 & 8"-4-3½"x ⅜ Ø x 3½" WIDE W/ 2-¾Ø @ 2'-10" SOLTS.

WELD ON SHOWN

BUTT WELD JOINTS TO CONT.

1'-6" 2'-0" 16'-0"

SQ. END

4'-6"

12"

5

NEW SECTION OF CHAIN LINK FENCING SEE SHEET A-2 FOR DETAILS

EXP. JT.

Interior Finishes ≡ 22061-C

Mullion Frame ≡ 20311-C

Glazed Mullion ≡ 22511-C

CONC. RETAINING WALL SEE SHEET C-1 FOR DETAILS

Exterior Finishes ≡ 22061-C

Mullion Frame ≡ 20311-C

Glazed Mullion ≡ 22511-C

SEE SHEET C-1 FOR DETAILS.

Partitions ≡ 22521-Custom

≡ 20021-Custom

Glazed Partitions ≡ 22551-Custom

≡ 1015

≡ 1915 Bronze

Ceramic Tile ≡ 22521-Custom

≡ 20021-Custom

Base ≡ 20311-C

Toilet Partitions ≡ 22521-Custom

Mirrors ≡ 20311-C

Doors ≡ 20052-C

Paint ≡ 22511-C

PNEUMATIC TUBE QUEES FURNISHED BY OWNER & INSTALLED BY GEN. CONTR.

H.W. TANK

LINE OF ROOF ABOVE

LINE OF ROOF BELOW

Fire Doors ≡ 22661 Bronze Custom modification ≡ 20311-C

Wood Base ≡ 20311-C

9" CONC. BLOCK

TYPE 'A' SASH

TYPE 'B' SASH

ALUM. CONVEX ALUMINUM AWNING

8" CONC. WALL

EQUAL DIVISIONS

EIGHT EQUAL DIVISIONS

FIVE EQUAL DIVISIONS

SIX EQUAL DIVISIONS

72'-0" M.O.

18'-4" M.O.

26'-0" M.O.

24'-4" M.O.

24'-4" M.O.

26'-0" M.O.

5'-11½" M.O.

10'-8" M.O.

20'-0" M.O.

6'-0" M.O.

5'-0" M.O.

5'-0"

10'-8"

10'-0"

11'-0"

6'-0"

5'-0"

5'-11½"

5'-6"

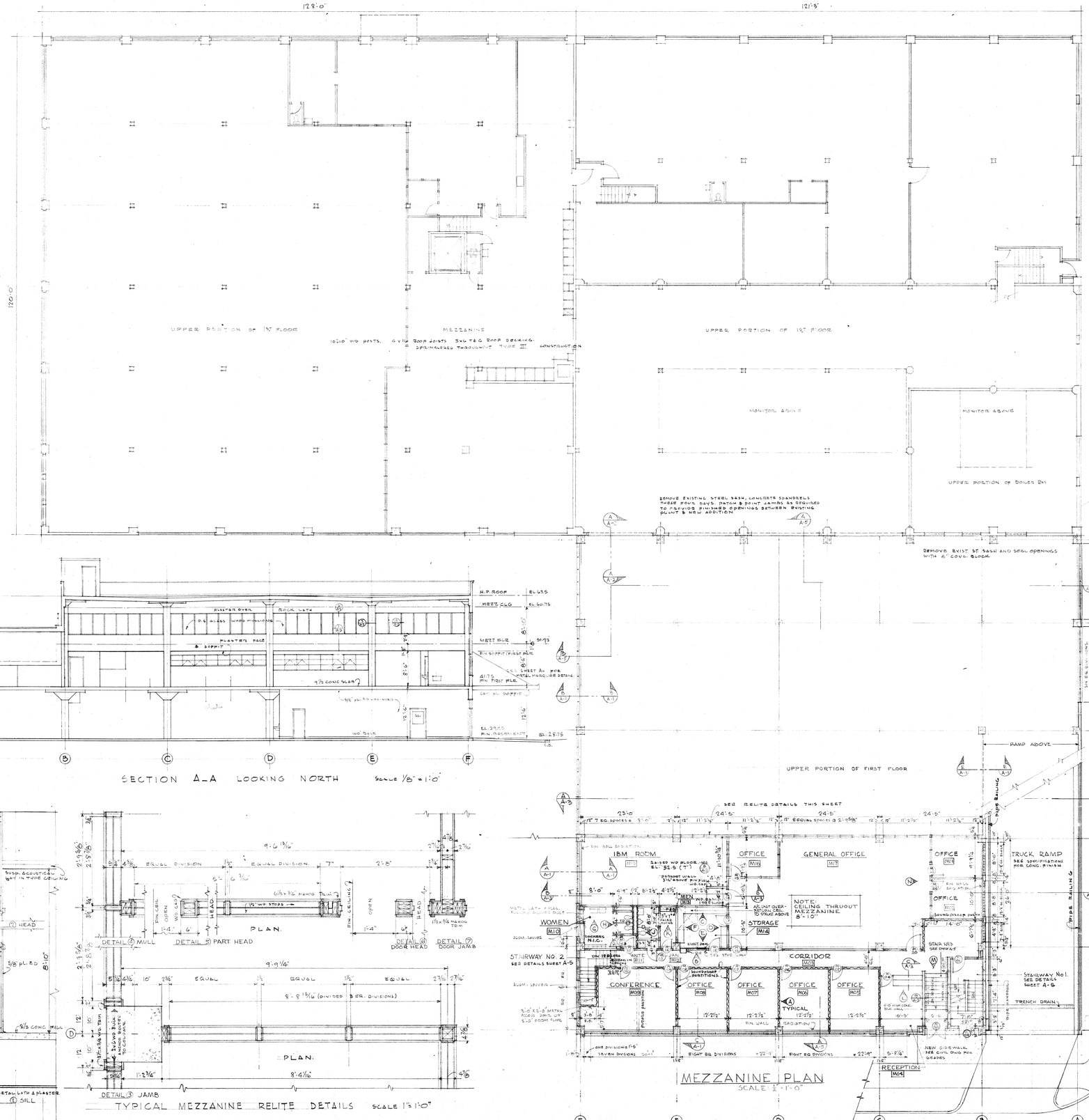
5'-3"

5'-6"

5'-3"

5'-6"

5'-3


128'-0"
121'-5"
120'-0"
UPPER PORTION OF 1ST FLOOR
MEZZANINE
UPPER PORTION OF 1ST FLOOR
10x10 WD PSTS. 4"x16" ROOF JOISTS 3x6 T&G ROOF DECKING.
SPRINKLERED THROUGHOUT TYPE III CONSTRUCTION
MONITOR ABOVE
MONITOR ABOVE
UPPER PORTION OF BOILER RM
REMOVE EXISTING STEEL SASH, CONCRETE SPANDRELS THESE FOUR BAYS. PATCH & POINT JAMBS AS REQUIRED TO MATCH FINISHED OPENINGS BETWEEN EXISTING PLANT & NEW ADDITION
REMOVE EXIST ST SASH AND SEAL OPENINGS WITH 6" CONC BLOCK
RAMP ABOVE
UPPER PORTION OF FIRST FLOOR
SEE RELITE DETAILS THIS SHEET
IBM ROOM
OFFICE
GENERAL OFFICE
OFFICE
TRUCK RAMP
SEE SPECIFICATIONS FOR CONC. FINISH
NOTE: CEILING THRUOUT MEZZANINE 8'-10"
STORAGE
WOMEN
CORRIDOR
STAIRWAY NO. 2
SEE DETAILS SHEET A-5
CONFERENCE
OFFICE
OFFICE
OFFICE
OFFICE
OFFICE
STAIRWAY No.1 SEE DETAILS SHEET A-6
TRENCH DRAIN
RECEPTION
EXIST CURB
EXIST SIDEWALK
MEZZANINE PLAN
SCALE: 1/8"=1'-0"
H.P. ROOF EL 53.5
MEZZ CLG EL 40.75
MEZZ FLR 31.92
FIN SOFFIT FIRST FLR 41.75
FIN FIRST FLR
SOFFIT
EL 39.25 FIN BASEMENT FLR 31.92-7.5
SECTION A-A LOOKING NORTH scale 1/8"=1'-0"
FIN MEZZ CEIL
SUSP. ACOUSTICAL TILE CEILING
DETAIL 1 HEAD
DETAIL 2 MULL
DETAIL 3 PART HEAD
DETAIL 4 DOOR HEAD
DETAIL 5 DOOR JAMB
DETAIL 6 SILL
DETAIL 7 JAMB
PLAN.
TYPICAL MEZZANINE RELITE DETAILS scale 1"=1'-0"
REMOVABLE FLOOR PANEL 1" metal bonded top & bottom finish, covered with 1/8" vinyl tile
Vinyl Asbos. Tile Cbg
RAISED FLOOR DET (B) I.B.M. ROOM
TYPICAL WALL OF PRIVATE OFFICES FACING VALLEY STREET. SCALE 1/2"=1'-0"
ELEV. A
WALL DETAIL
TYPICAL JOINT
ADJACENT TO RAMP
CORRIDOR ELEV. OF DRINKING FOUNTAIN
ELEV. B
SECTION B-B I.B.M ROOM & RAISED FLOOR
ELEV. C - SOUTH WALL
ELEV. D - WEST WALL
ELEV. E NORTH WALL
ELEV. F EAST WALL
STORAGE ROOM DETAILS
ELEV. G - SOUTH WALL WOMEN'S RESTROOM
ELEV. H - WEST WALL
ELEV. J - EAST WALL MEN'S RESTROOM
ELEV. K - SOUTH WALL
RECEPTIONISTS DESK & COUNTER ELEV. L
LOBBY & FRONT VIEW OF RECEPTION COUNTER ELEV. M
DET (3) CAP
WEST WALL OF GENERAL OFFICES ELEV. N
SECTION C-C RECEPTIONISTS COUNTER.
ELEVATIONS & DETAILS OF MEZZANINE AREAS scale 1/4"=1'-0"
REFLECTED PLAN OF SUSPENDED CEILING. scale 1/8"=1'-0"
REVISION | DATE | DESCRIPTION
PRINTS | DATE | ISSUED TO
DRAWN WL-AE
CHECKED
APPROVED
DATE
MEZZANINE PLAN & DETAILS
JOB 1456
DRAWING A-3
ADDITIONS & ALTERATIONS TO THE AMERICAN LINEN SUPPLY CO.
DEXTER NORTH & ROY ST
SEATTLE, WASHINGTON
REGISTERED ARCHITECT STATE OF WASHINGTON
JOHN GRAHAM AND COMPANY ARCHITECTS AND ENGINEERS
SEATTLE • NEW YORK

BASEMENT FLOOR PLAN

SCALE 1/8" = 1'-0"

EXISTING BUILDING

EXISTING BOILER ROOM

EXISTING BLDG TO REMAIN

PARKING

EXIST. HEAT EXCHANGER TO REMAIN

EXISTING PUMP ISLAND TO REMAIN

PROPERTY LINE

NEW 6" STORM SEWER

NEW 6" SANITARY SEWER

EXIST. 8" CONN. SEWER

TRUCK LOADING & STORAGE AREA

CHUTE ROOM

CHUTE OPEN

CHUTE OPEN

STATIC PIPE

SWITCH BOARD RM.

VERIFY LOCATION

CONNECT NEW 6" C.W. SERVICE TO EXISTING 6" SER. APPROX. 10'-0" ON LOW PRESS. SIDE OF REV.

LOUVER RM. VENT

BASIN SUPPORT

TRAP-PACKER UNIT

4" BELOW SLAB

PROVIDE SLEEVES SEE PIPING THRU WALLS

CONN TO EXIST PIPING

EXIST. HEAT EXCHANGER TO REMAIN

EXISTING CONDENSATE RECEIVERS

STACK-TYPE CLEANOUT

5" SQ DN. 5" UP

ALL DUCT DROPS BEARING FLOOR DN TO TOP OF IBGA (STYP.)

SE 21.75

20/10" DUCT ON ON WALL TO WITHIN 24" ABOVE PLENUM 20"W GRILLE WITH VOL DAMPER (5 TYPICAL)

20/10" DUCT ON ON COLUMN TO WITHIN 24" ABOVE FL. WITH 20"W GRILLE AND VOL DAMPER (5 TYPICAL)

20/12" DUCT DN (SEE NOTE)

2'-0" DROP

2'-0.5

2'W

2'-0.5

FCO

UNIT H-1

CATCH BASIN D-3

COVERED IN LOAD ING CONCOURSE

4" UP TO D-6

NEW LOCATION OF 4" GAS MAIN & REUSE EXIST PIPE. ADD 45° ELBOW.

4ST TOP AS PIPE APPROX ELEV 25.5'

TOP 28.75'

WALL LOUVER BY G.C.

TOP 28.75'

CATCH BASIN D-3

TOP 28.75'

HB

LINE FOR TEST SYSTEM, DRAIN TO D-3 APPROX 6'-0" ABOVE FLOOR. TERMINATE WITH TEST VALVE & CAP ABOVE FLOOR. TERMINATE WITH HOSE BIBB, VACUUM BREAKER & CAP

ANCHOR

COLD WEATHER DRAIN VALVE & DRAIN CAP

AIR COMP. MOUNT AT WALL

STOP & WASTE VALVE

SUMP 3 MH 3'-0" DEEP

4"W

4"V

10'-0" FT. FIN. 0.5 MPH

3/4" P.(R)

3.0 FT FIN 3.5 MPH

1'-0"

1'-0"

3.0 FT FIN 1.5 MPH

6'-0" FT FIN 0.5 MPH

3/4" P.(R)

3.0 FT FIN 1.5 MPH

6'-0" FT FIN 0.5 MPH

3/4" P.(R)

3/4" P.(R)

3.0 FT FIN 3.5 MPH

CATCH BASIN D-3

TOP 28.75'

NEW 4" SANITARY SEWER

I.E. 24.0'

I.E. 24.75

I.E. 29.08

4" I.E. 27.00'

EXISTING 4" GAS MAIN REMOVE FOR RELOCATION

2" UP TO D-6

2" CW UP

3/4" DN HOT WATER STACK TO CLEANOUT

2" CW UP

3/4" FIN. 3.5 MPH

3/4" P.(R)

I.E. 27.40'

CONNECT TO FOOTING DRAIN

CUT EXIST 4" GAS MAIN AT LOCATION THIS AREA

SEE 1/4" SCALE TOILET ROOMS THIS SHEET

2-10/6" C.I. 1100 GPM EA

2-10/6" C.I. 1100 GPM EA

10"/20" EGG 1500 GPM

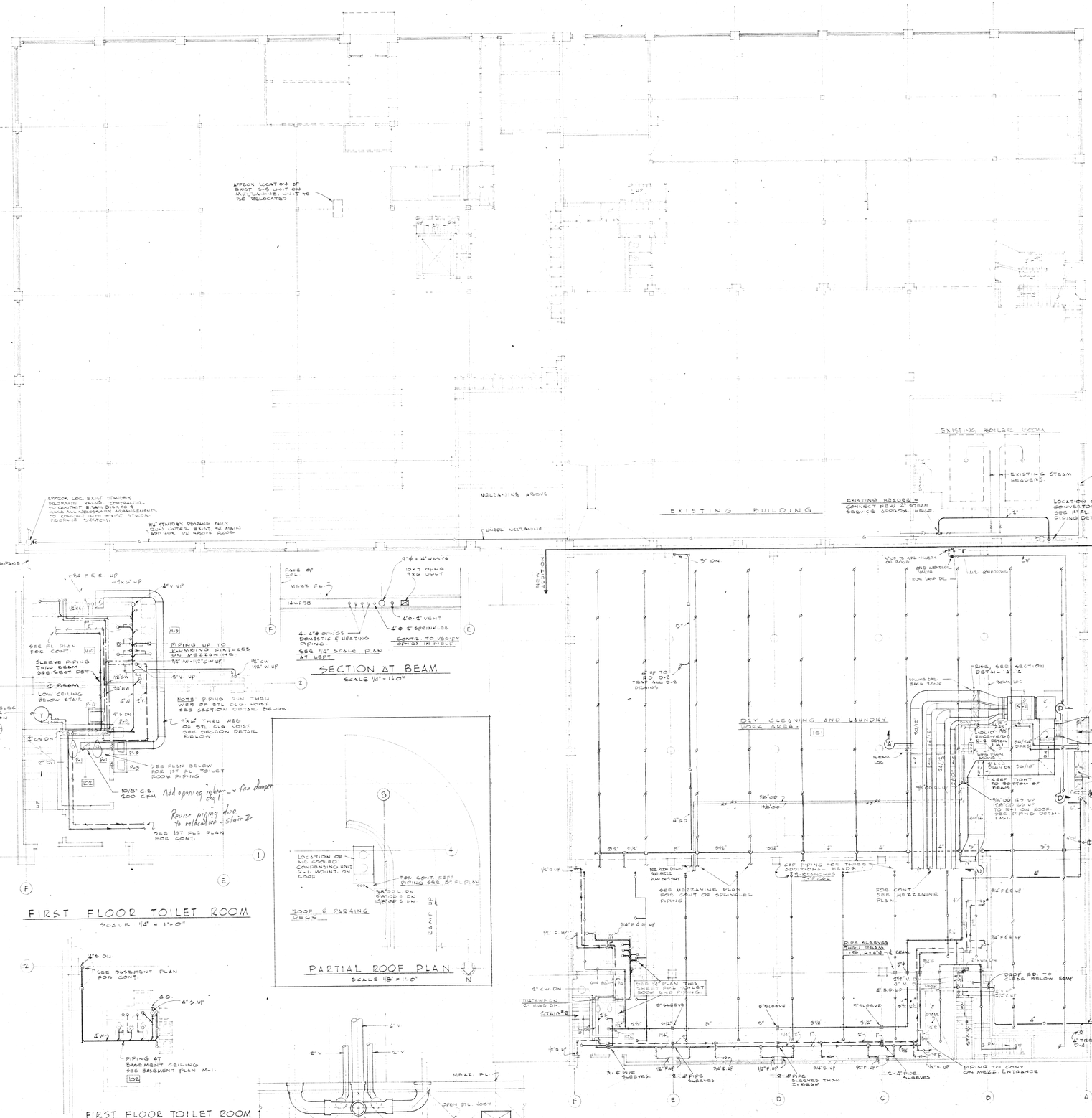
24/20" EGG 2700 GPM

24/20" EGG 2700 GPM

2'-6" UP

2'-6" UP

2'-6" UP



REVISION | DATE | DESCRIPTION — PRINTS | DATE | ISSUED TO

DRAWN: T.C.
CHECKED: T.A.T.
APPROVED: E.G.M.
DATE: DEC. 1965

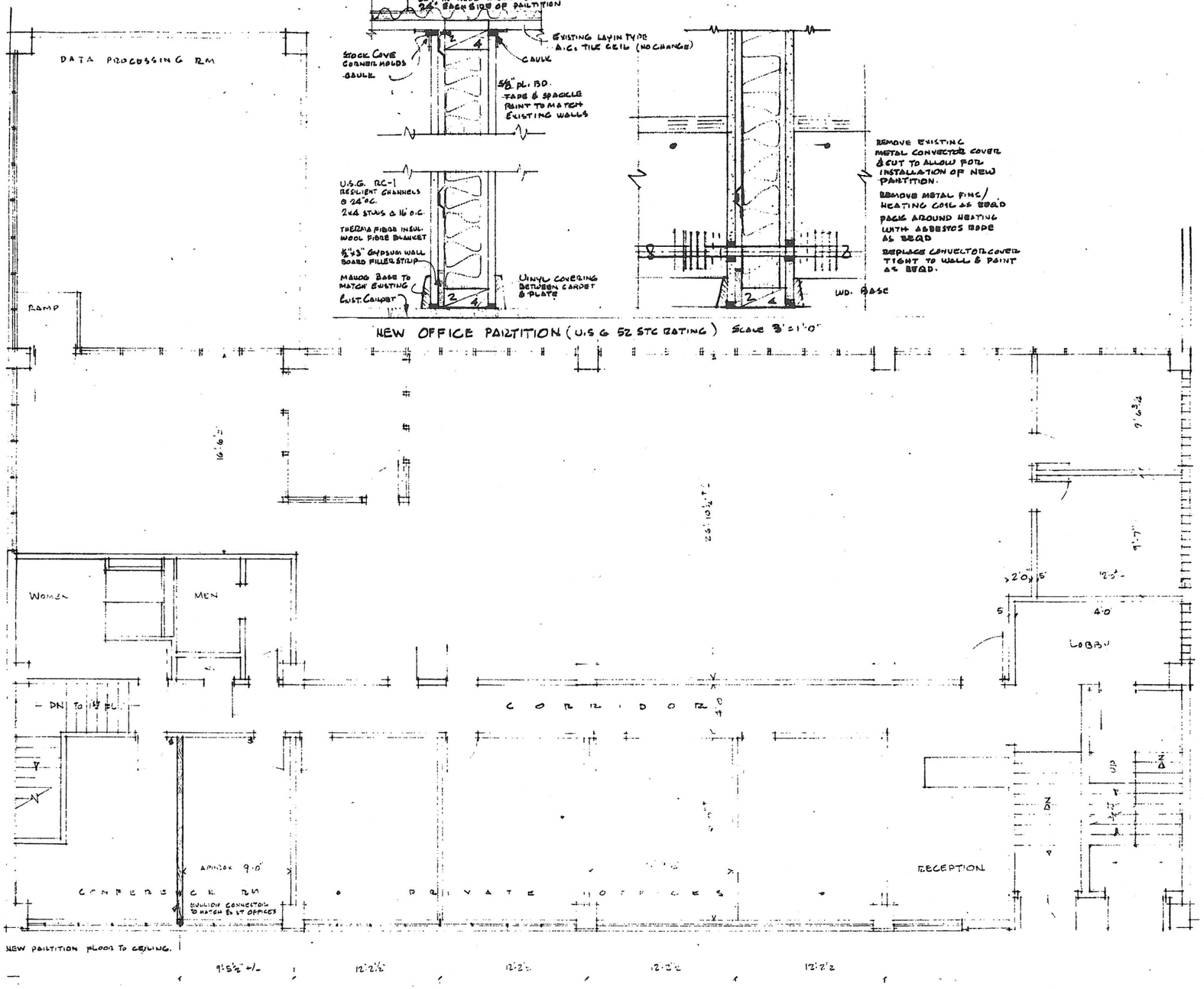
FIRST & MEZZANINE FLOOR PLANS

ADDITIONS & ALTERATIONS TO THE AMERICAN LINEN SUPPLY CO.
DEXTER NORTH & ROY ST.
SEATTLE, WASHINGTON

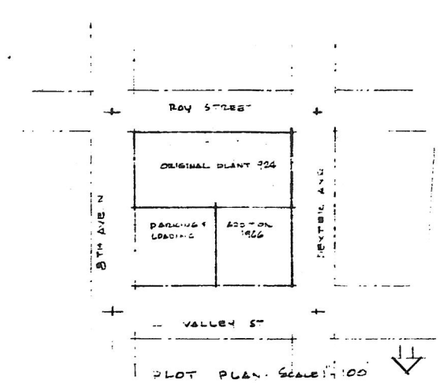
JOB 1456
DRAWING M-2

JOHN GRAHAM AND COMPANY ARCHITECTS AND ENGINEERS
SEATTLE • NEW YORK

NEW OFFICE PARTITION (U.S.G. 52 STC RATING) SCALE 3"=1'-0"



MEZZANINE FLOOR PLAN Scale 1/4"=1'-0"



PLOT PLAN. SCALE 1"=100'

NO STRUCTURAL CHANGES NOW AND ADDITIONAL AREA TO EXISTING MEZZANINE OFFICE SPACE

EXISTING CLASSIFICATION - TYPE III CONSTRUCTION SPRINKLERED THROUGHOUT

536092

LEGAL DESCRIPTION
LOTS 1,2,3,4,5,6,7 & 8 OF BLOCK 7 EDENS ADDITION TO CITY OF SEATTLE AS RECORDED IN VOLUME 1 OF PLATS AT PAGE 61-A RECORDS OF KING COUNTY WASHINGTON

N

REGISTERED ARCHITECT JOHN GRAHAM STATE OF WASHINGTON

DR. JV	ALTERATIONS & ADDITIONS TO THE EXISTING FIRST FLOOR & MEZZANINE OFFICES OF THE AMERICAN LINEN SUPPLY CO DEXTER NORTH & ROY ST 771 VALLEY STREET SEATTLE WASH
CH. JG	
APPROVED	
DATE 1-15-70	

JOB P.634-1 AC

A1

JOHN GRAHAM AND COMPANY ARCHITECTS & PLANNERS - ENGINEERS
SEATTLE - NEW YORK

ORIGINAL PLANT

1966 ADDITION

GARMENT SORTING AREA.
CONCRETE FLOOR/WALLS & CEILING.
SPRINKLERED THROUGHOUT

NEW CONFIDENCE ROOM

PAINT OUTSIDE GL.

EXISTING OPERATION SASH

2nd STUD 16" O.C. BET. PLKG

THERMAFIBRE INSUL WOOL BLANKET
USG RC-1 RESILIENT CHANNELS @ 24" O.C.
5/8" GL. BD SPECKLE & TAPED
SCOTT'S PAINT

EXISTING SPRINKLERS IN SUSPENDED METAL LATH & PLAST CEIL ABOVE

EXISTING LUNCH RM

EXISTING A.T. FLOOR NO CHANGE

LINE OF MEZZANINE ABOVE

SIDEWALK (VALLEY ST.)

FIRST FLOOR AREA Scale 1/8"=1'-0"

EXIST SUSPENDED CEMENTITIOUS LATH

CAULKING

1

THERMAFIBRE INSULATING WOOL BLANKET

WORK 2ND FLOOR

PLASTER ON METAL LATH

CAULKING

SECTION THRU PRESENCE OF WALL Scale 3"=1'-0"

535092

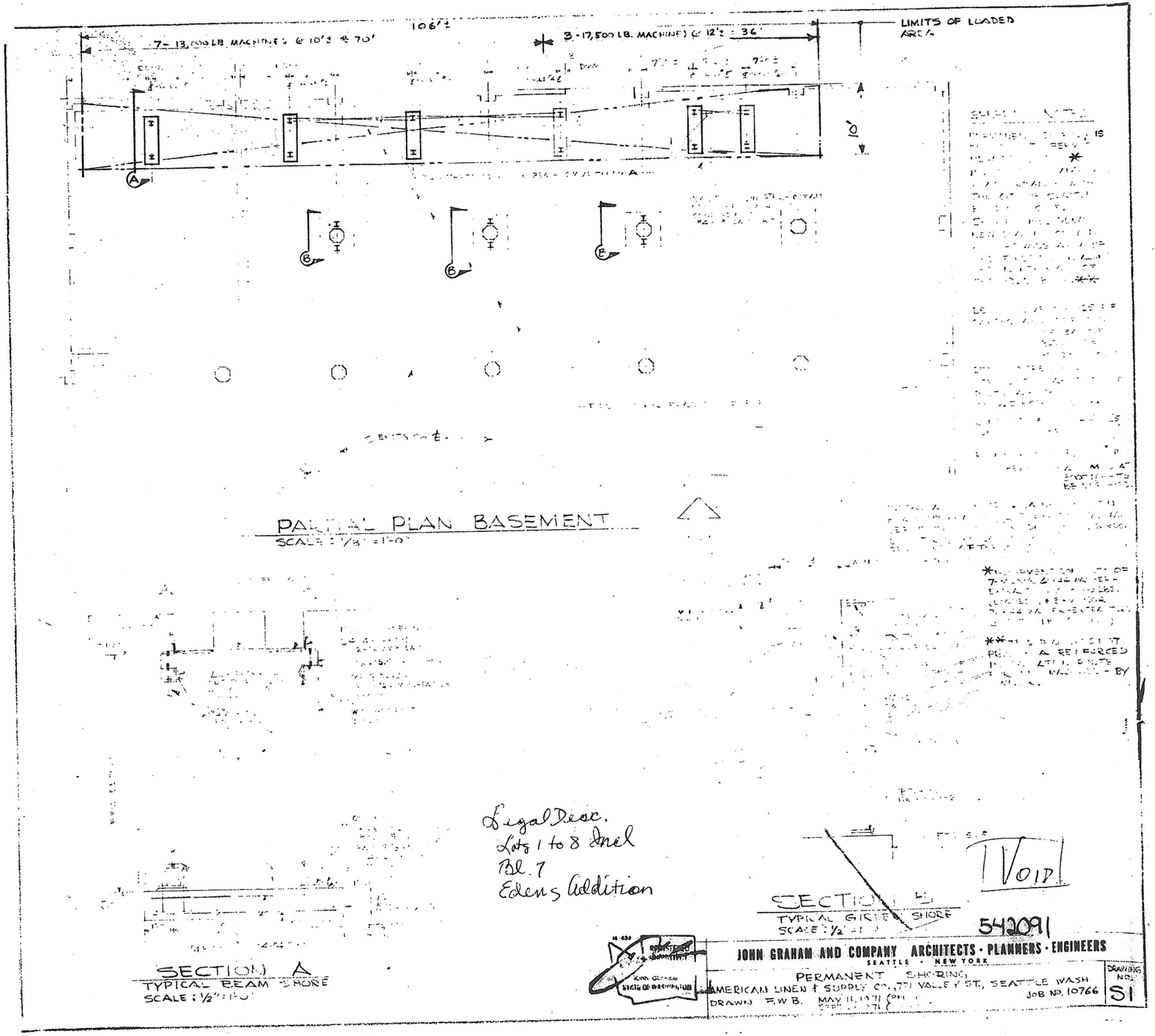
ALTERATIONS & ADDITIONS TO
THE EXISTING FIRST FLOOR & MEZZANINE OFFICES
OF THE AMERICAN LINEN SUPPLY CO
DEXTER NORTH & ROY ST
771 VALLEY ST. SEATTLE WASH

DATE 1-15-70

JOHN GRAHAM AND COMPANY ARCHITECTS · PLANNERS · ENGINEERS
SEATTLE · NEW YORK

JOB P6514

A 2



PARTIAL PLAN BASEMENT
SCALE : 1/8" = 1'-0"

SECTION A
TYPICAL BEAM SHORE
SCALE : 1/2" = 1'-0"

Legal Desc.
Lots 1 to 8 Incl
Bl. 7
Edens Addition

SECTION B
TYPICAL GIRDER SHORE
SCALE : 1/2" = 1'-0"

VOID

542091

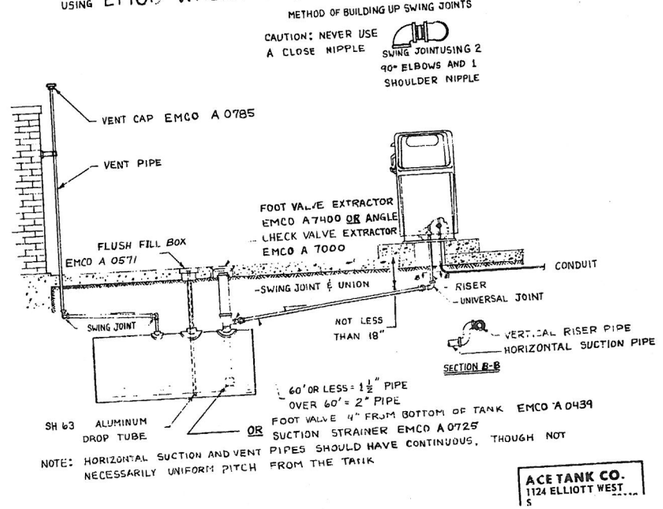
JOHN GRAHAM AND COMPANY ARCHITECTS · PLANNERS · ENGINEERS
SEATTLE · NEW YORK

PERMANENT SHORING
AMERICAN LINEN & SUPPLY CO., 771 VALLEY ST., SEATTLE WASH
DRAWN F.W.B. MAY 11, 1971
JOB NO. 10766

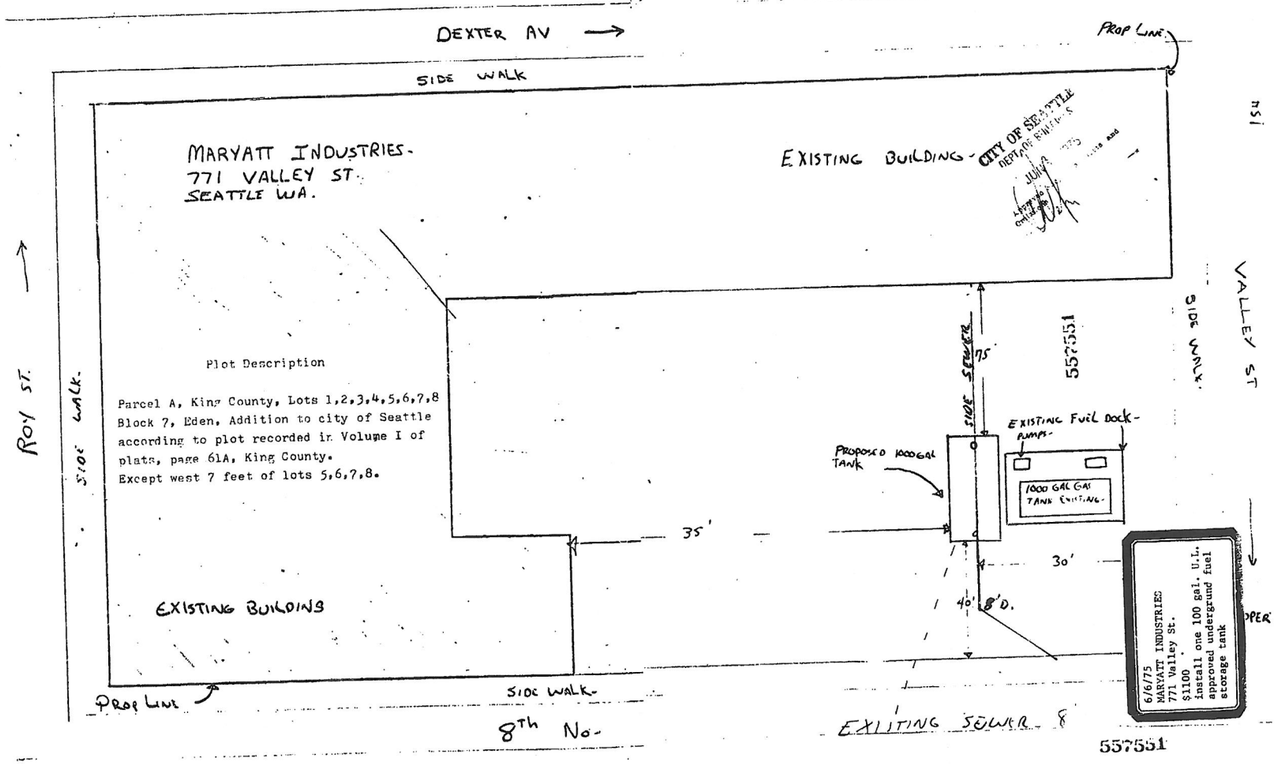
DRAWING NO. S1

TYPICAL SUCTION PUMP INSTALLATION

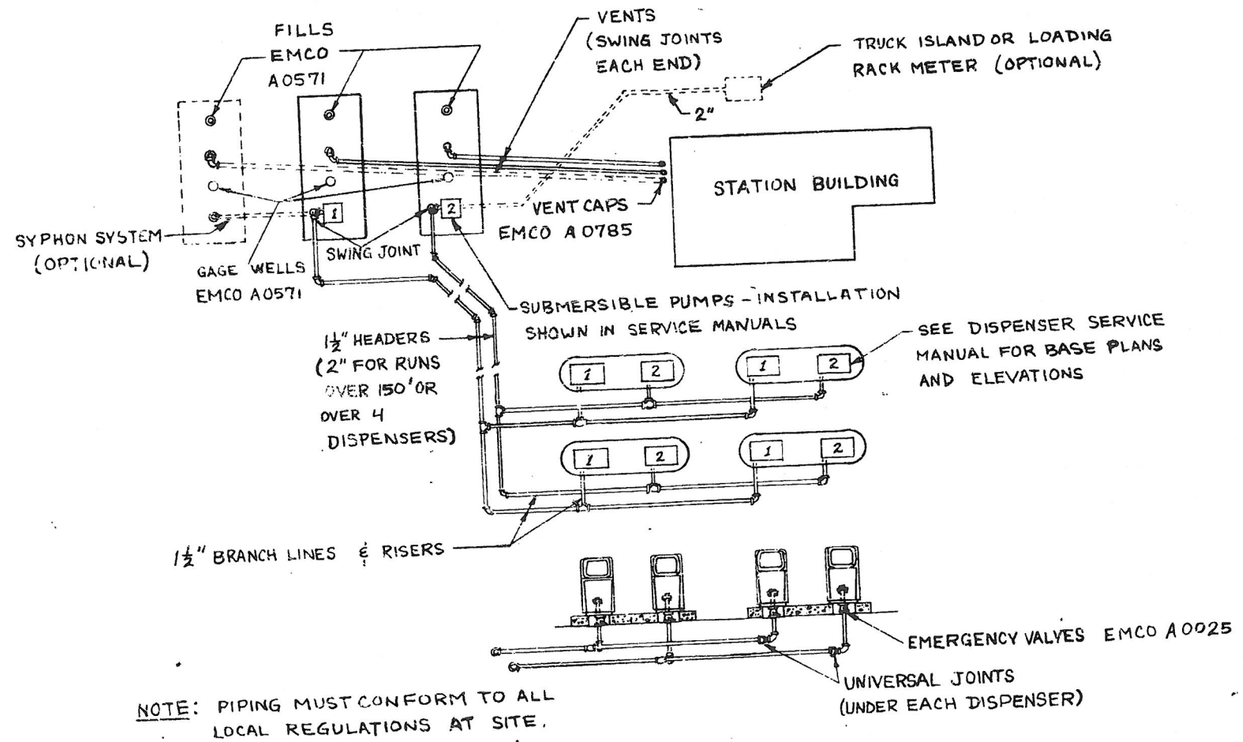
USING EMCO WHEATON (BUCKEYE) VALVES AND FITTINGS



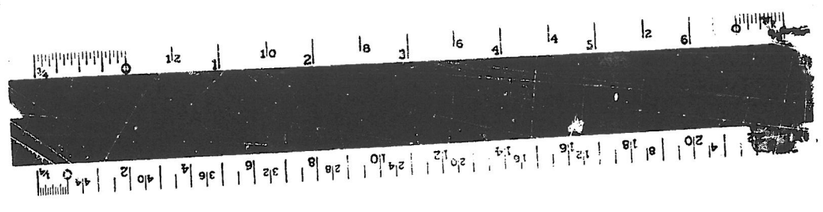
ACE TANK CO.
1124 ELLIOTT WEST
S

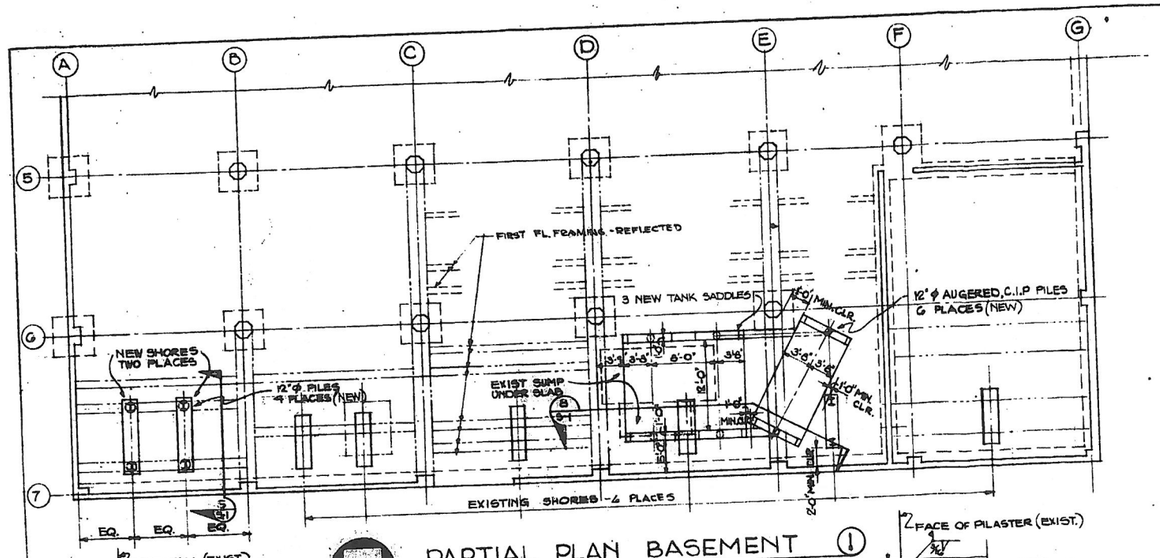


TWO PRODUCT
TYPICAL REMOTE SYSTEM PIPING DIAGRAM
USING EMCO WHEATON (BUCKEYE) VALVES AND FITTINGS



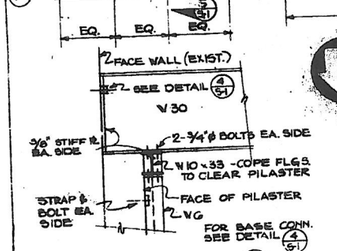
NOTE: PIPING MUST CONFORM TO ALL LOCAL REGULATIONS AT SITE.





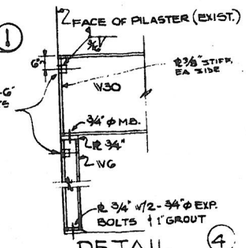
PARTIAL PLAN BASEMENT (1)

SCALE: 1/8" = 1'-0"



DETAIL (3)

SECTION (3A)



DETAIL (4)

PARTIAL PLAN 1ST FLOOR (2)

SCALE: 1/8" = 1'-0"

NEW EQUIPMENT SHOWN TO SCALE. FOR EXACT LOCATION SEE MILNOR DWGS. 78253-2 & 78255-3.
EQUIPMENT LETTER 'A' WT. = 16.81 KIPS
EQUIPMENT LETTER 'B' WT. = 24.57, KIPS

SPECIAL INSPECTION REQUIRED
BY CITY CERTIFIED SPECIAL INSPECTORS
FOR THE FOLLOWING TYPES OF WORK:
Dames & Moore 523-0560
Installation
Auger cast Pile

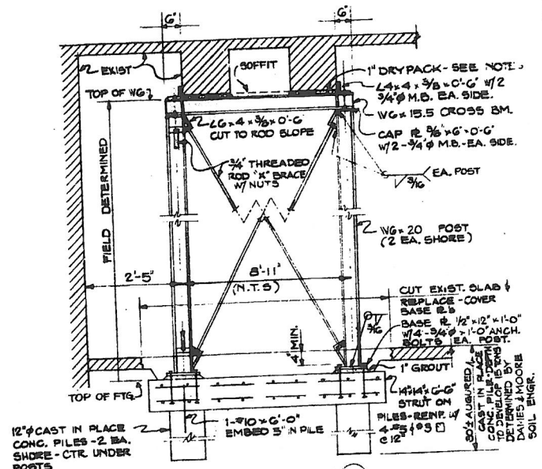
APPROVED
CITY OF SEATTLE
DEPARTMENT OF BUILDINGS
SUBJECT TO ORDINANCE
SEP 29 1978
Structural only
By: Kurahara

CITY OF SEATTLE
DEPT. OF BUILDINGS
Approved Subject to Errors and Omissions
SEP 29 1978
By: Omodeo

PLANS CHECK OFF

SET #	CHECKED BY	DATE
Zoning	RA	9-29-78
Site		
Arch	RA	9-29-78
Str	TAK	9-29-78
Mech	NE	9/29
Elec	"	"
Plbg	"	"
C.O.D.		
Other		

VG Permit Issued by: [illegible] 9-29-78



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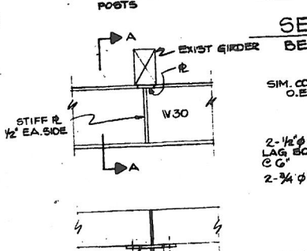
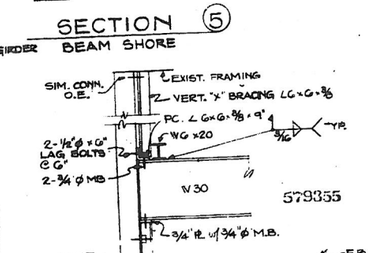


SECTION A-A



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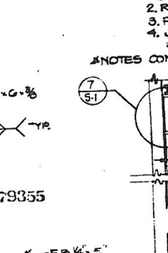
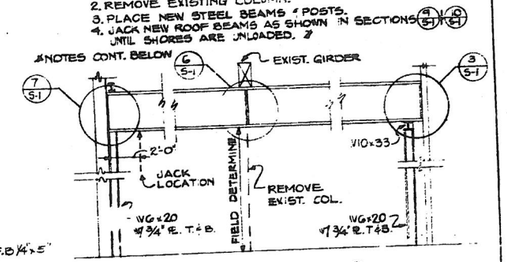


DETAIL (11)



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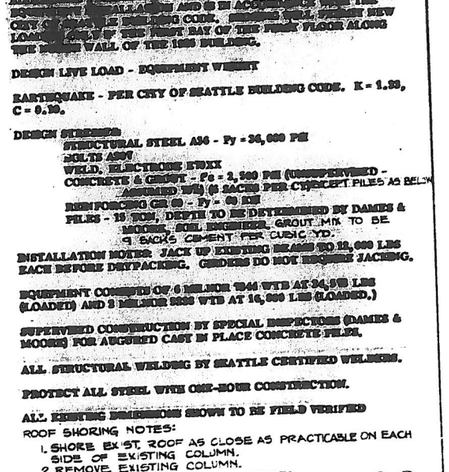


SECTION (9A) SIM. OPP. HAND

SECTION (10)

SECTION (8)
OTHER END SIMILAR

ROOF SHORING NOTES (CONT...)

5. REMOVE SHORES
6. GROUT NEW BASE PLATES AND PLACE STRAP & ANGLE SUPPORTS.
7. AFTER GROUT HAS ATTAINED f'c = 2000 PSI, OR 3 DAYS, REMOVE JACKS.

GENERAL NOTES

ALL STRUCTURAL WELDING IS DESIGNED TO CONFORM WITH THE [illegible] AND IS IN ACCORDANCE WITH THE [illegible] BUILDING CODE.

LOADING OF THE FIRST BAY OF THE FIRST FLOOR ALONG THE [illegible] WALL OF THE 1908 BUILDING.

DESIGN LIVE LOAD - EQUIPMENT WEIGHT

EARTHQUAKE - PER CITY OF SEATTLE BUILDING CODE. K = 1.33, C = 0.10.

DESIGN STRESSES
- STRUCTURAL STEEL A36 - Fy = 36,000 PSI
- BOLTS A307
- WELD, ELECTRODE E70XX
- CONCRETE & GROUT - f'c = 2,500 PSI (UNSUPERVISED - AUGERED PILES @ 5 SACKS PER CUBICFT PILES AS BELOW)
- REINFORCING (#3 ϕ) - Fy = 60 KSI
- PILES - 15 TON, DEPTH TO BE DETERMINED BY DAMES & MOORE, SOIL ENGINEER. GROUT MIX TO BE 9 SACKS CEMENT PER CUBIC YD.

INSTALLATION NOTES: JACK UP EXISTING BEAMS TO 32,000 LBS EACH BEFORE DRYPACKING. GIRDERS DO NOT REQUIRE JACKING.

EQUIPMENT CONSISTS OF 6 MILNOR 7244 WTB AT 34,500 LBS (LOADED) AND 3 MILNOR 5220 WTB AT 14,000 LBS (LOADED.)

SUPERVISED CONSTRUCTION BY SPECIAL INSPECTORS (DAMES & MOORE) FOR AUGERED CAST IN PLACE CONCRETE PILES.

ALL STRUCTURAL WELDING BY SEATTLE CERTIFIED WELDERS.

PROTECT ALL STEEL WITH ONE-HOUR CONSTRUCTION.

ALL EXISTING DIMENSIONS SHOWN TO BE FIELD VERIFIED

ROOF SHORING NOTES:
1. SHORE EX'ST. ROOF AS CLOSE AS PRACTICABLE ON EACH SIDE OF EXISTING COLUMN.
2. REMOVE EXISTING COLUMN.
3. PLACE NEW STEEL BEAMS & POSTS.
4. JACK NEW ROOF BEAMS AS SHOWN IN SECTIONS 9 S-1 & 10 S-1 UNTIL SHORES ARE UNLOADED.

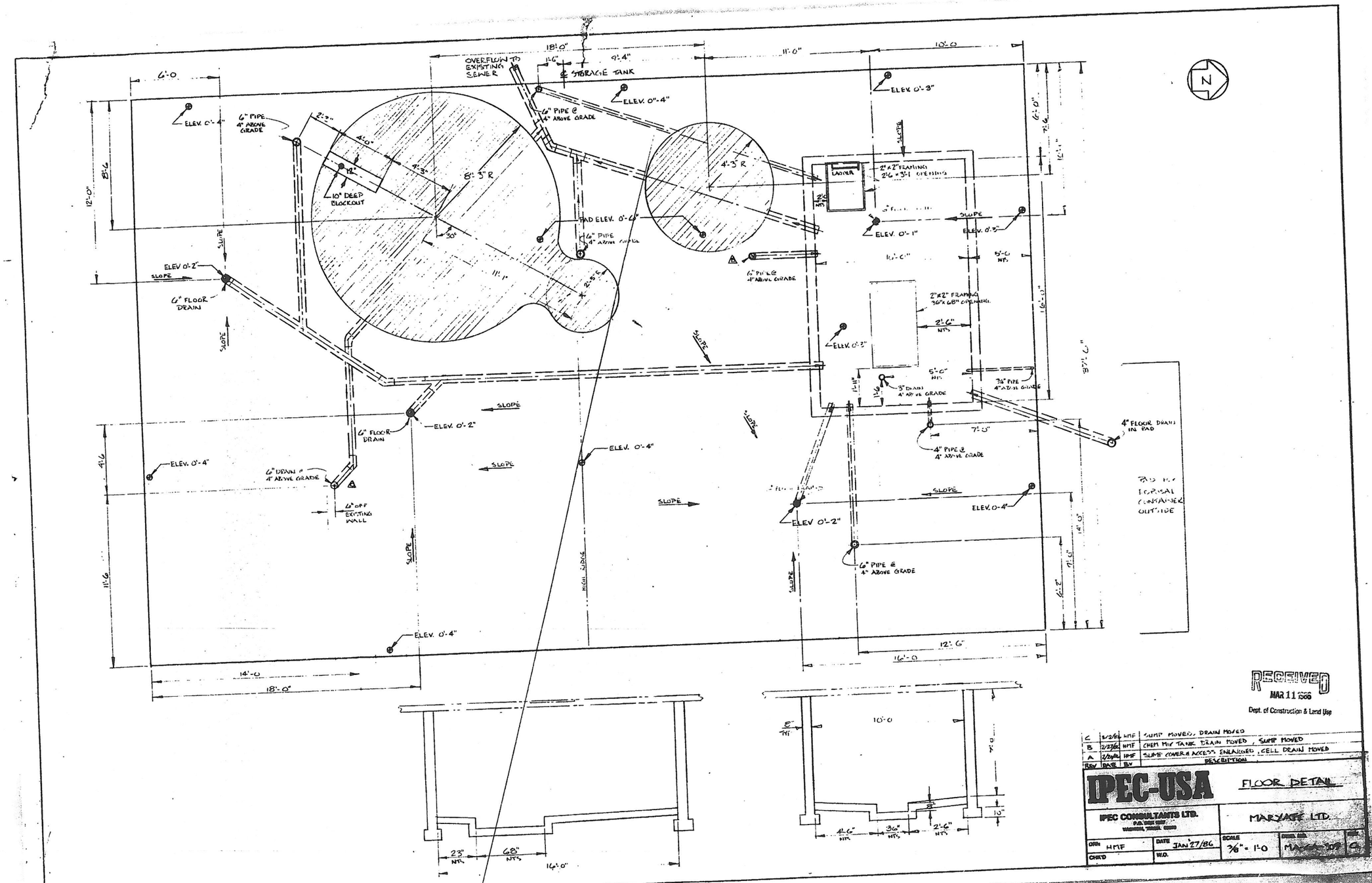
REVISION	DATE	DESCRIPTION
DRAWN	AM	PERMANENT SHORING & COL. RELOCATION
CHECKED	FB	MARYATT INDUSTRIES
APPROVED	FB	771 VALLEY ST.
DATE	9-1-78	SEATTLE, WASHINGTON

JOHN GRAHAM AND COMPANY ARCHITECTS · PLANNERS · SEATTLE · NEW YORK

RECEIVED
SEP 7 [illegible]
[illegible] WASH.

5-29-78 MARYATT INDUSTRIES 771 VALLEY ST. SEATTLE Alterations to exist. laundry bldg. 579355

1 Sheet



RECEIVED
MAR 11 1986
Dept. of Construction & Land Use

Rev	DATE	BY	DESCRIPTION
C	6/2/86	HMF	SUMP MOVED, DRAIN MOVED
B	2/27/86	HMF	CHEM MIX TANK DRAIN MOVED, SUMP MOVED
A	2/19/86	HMF	SUMP COVER & ACCESS ENLARGED, CELL DRAIN MOVED

IPEC-USA — FLOOR DETAIL

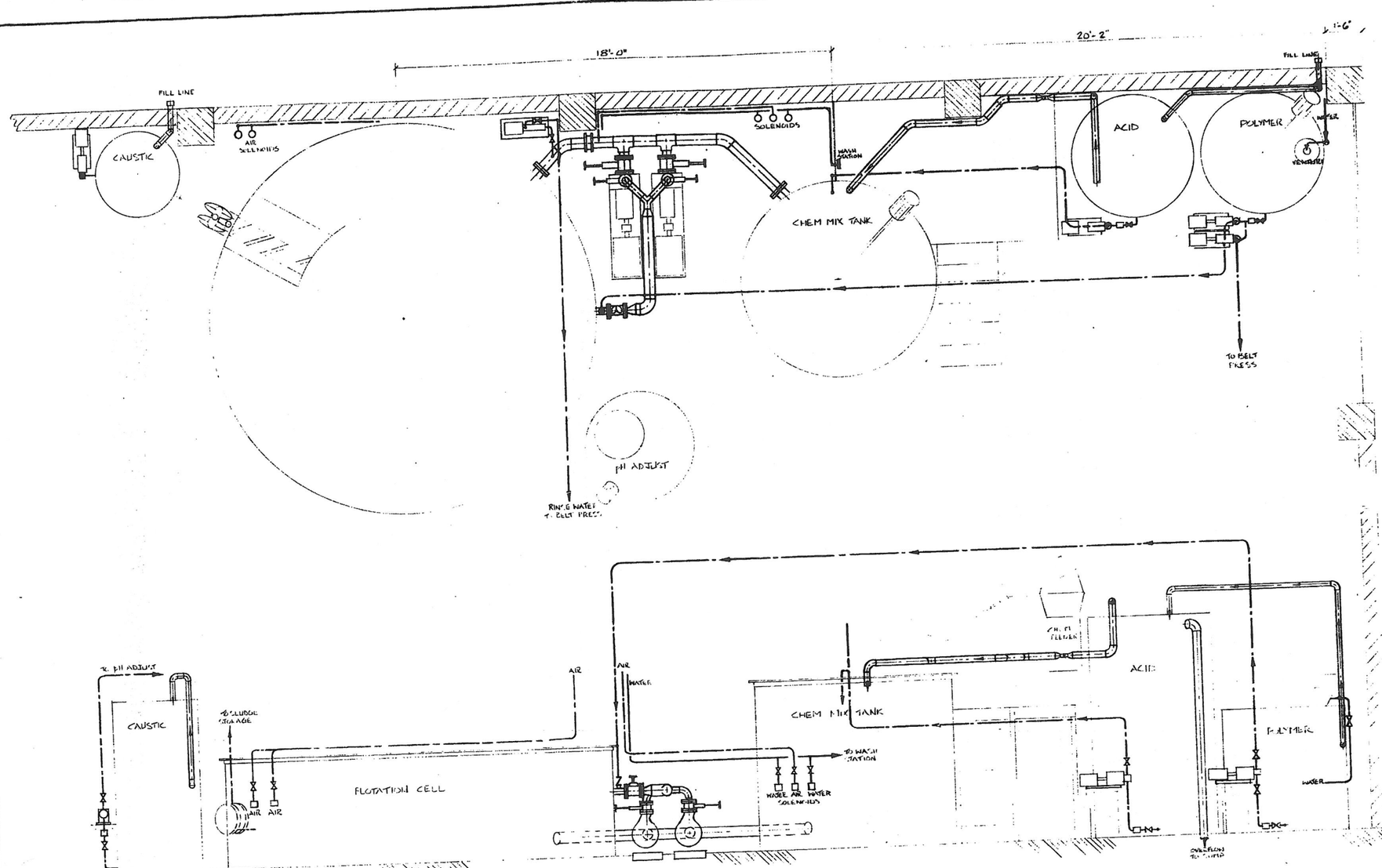
IPEC CONSULTANTS LTD.
P.O. BOX 1007
WARWICK, RHODE ISLAND

MARYATT LTD.

DRN	DATE	SCALE	DWG. NO.	REV.
HMF	JAN 27/86	3/8" = 1'-0	MARY-309	C
CHK'D	W.O.			

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



WEST WALL ELEVATION
SCALE ½" = 1'-0"

RECEIVED
MAR 11 1986
Dept. of Construction & Land Use

IPEC-USA

PIPING ELEVATION WEST WALL

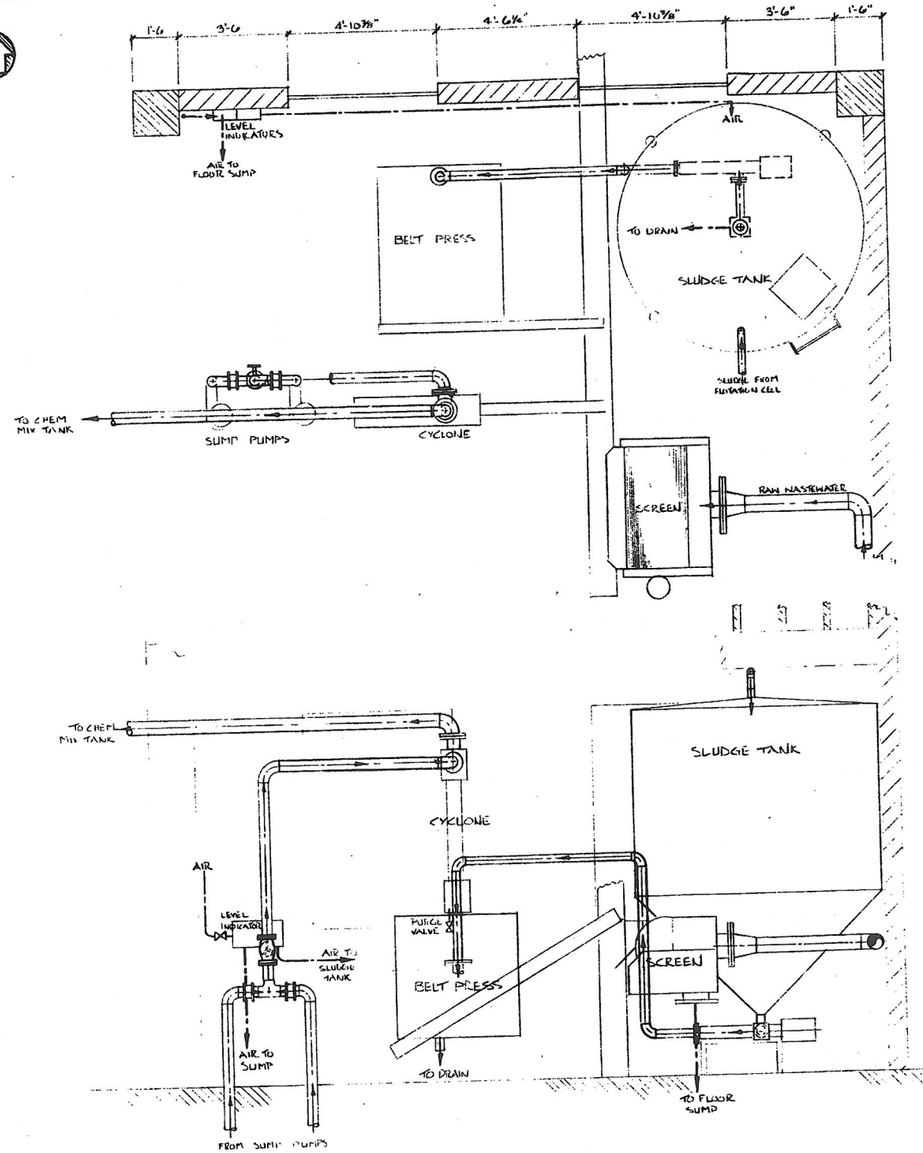
IPEC CONSULTANTS LTD.

MARYSTEP

DRN HMF	DATE FEB 19/86	SCALE ½" = 1'-0"	DWG. NO. MA-GA-310
CHK'D	W.O.		

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



NORTH WALL ELEVATION

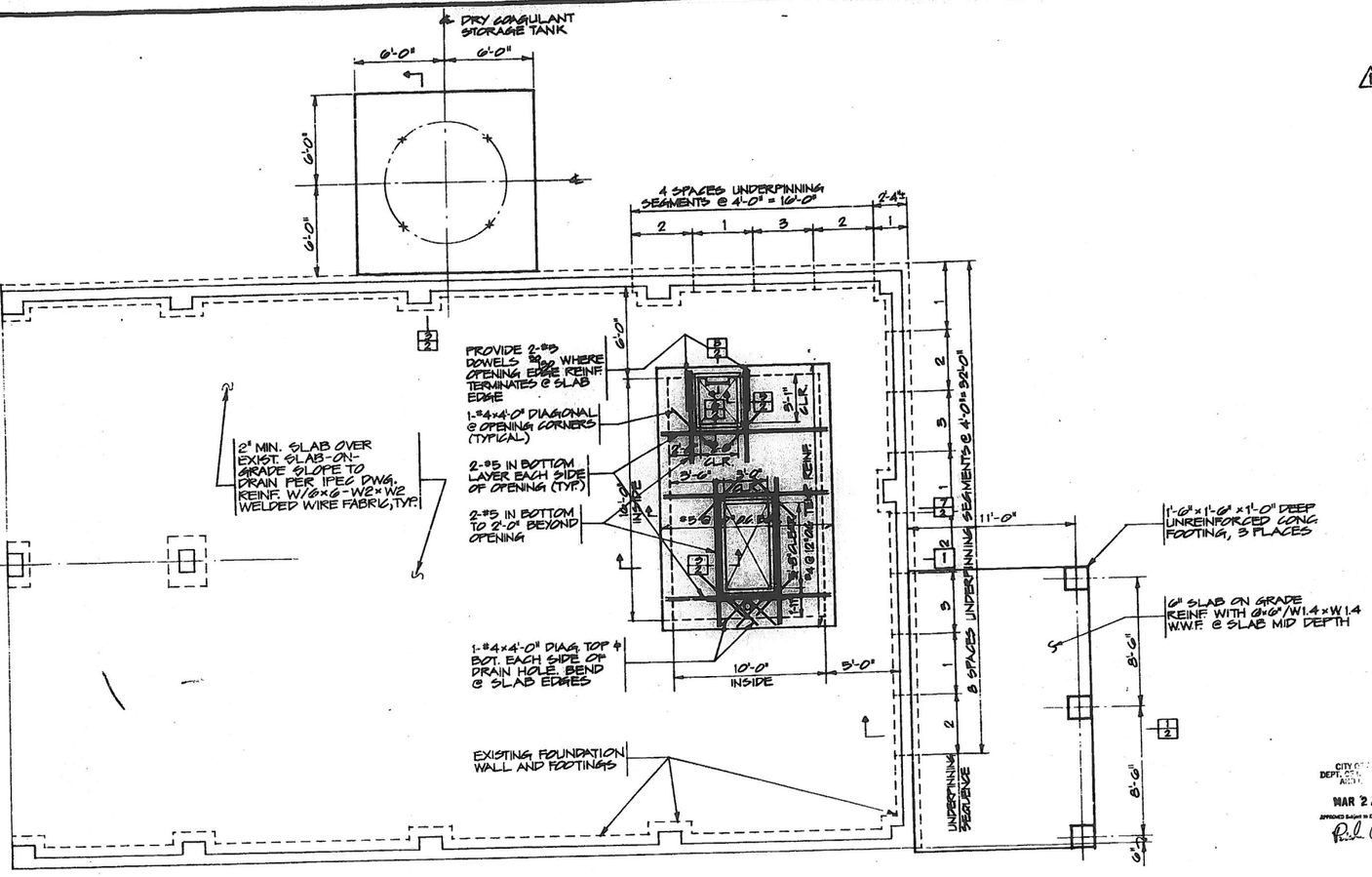
SCALE ½" = 1'-0

RECEIVED
MAR 11 1986
Dept. of Construction & Land Use

IPEC-USA	PIPING ELEVATION NORTH WALL		
IPEC CONSULTANTS LTD. P.O. BOX 1107 VANCOUVER, WASH. 98660	MARYATT		
DRN HMF	DATE FEB 18/86	SCALE ½" = 1'-0	DWG. NO. MA-GA-311
CHK'D	W.O.		REV.

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



STRUCTURAL NOTES

CODE:
THE UNIFORM BUILDING CODE (UBC) 1982 EDITION, WITH REGIONAL AMENDMENTS.

LIVE LOADS:

	50 PSF, DEF. L/__
WIND	20 PSF @ 70 MPH
SEISMIC	Z=0.75, I=1.25, K=2.0, C=0.14
UNDERFLOOR TANK LID	30 PSF (EMPTY TANK)
LATERAL-EARTH PRESSURE	30 PCF (EQUIV. FLUID PRESSURE)

FOUNDATION:
EXTEND FOOTINGS TO FIRM UNDISTURBED SOIL OF 2,000 PSF MINIMUM CAPACITY, OR A MINIMUM OF 1'-0" BELOW ADJACENT FINISHED FINISH GRADE, WHICHEVER IS GREATER.

CONCRETE:
CONCRETE f'c = 2000 PSI @ 28 DAYS, fc = 450 PSI. USE A MINIMUM OF 5 SACKS OF CEMENT PER CU. YD. CONCRETE A MAXIMUM OF 7-1/2 GAL. OF WATER PER 940 LBS OF CEMENT. CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS:

CAST AGAINST EARTH	3"
FORMED WALL EXPOSED TO EARTH	1-1/2"
FORMED WALL EXPOSED TO LIQUID	1-1/2"
SLAB SOFFIT EXPOSED TO LIQUID CONTENTS	1-1/2"

ALL CONCRETE IN FOOTINGS, WALLS AND STRUCTURAL SLABS SHALL BE POURED IN A MONOLITHIC POUR UNLESS OTHERWISE APPROVED BY THE ENGINEER PRIOR TO POURING.

CALL BUILDING DEPARTMENT FOR INSPECTION OF REINFORCING STEEL PRIOR TO POURING CONCRETE.

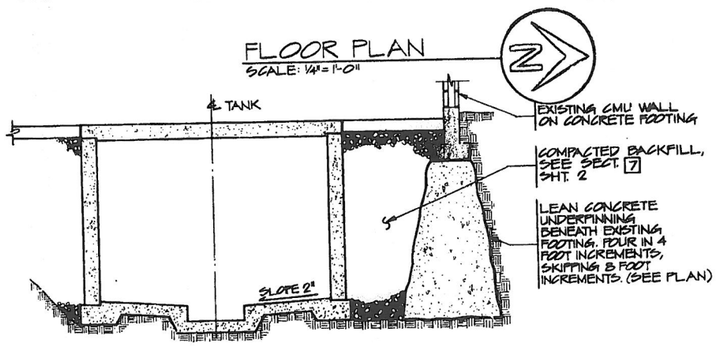
REINFORCING STEEL:
DEFORMED BILLET STEEL ASTM A-615, GRADE 40, fy = 20,000 PSI. LAP ALL SPLICES 22d MINIMUM. PROVIDE SLAB BARS AT WALL CORNERS AND INTERSECTIONS TO MATCH CONCRETE REINFORCED. REINFORCING DRAWINGS SHALL BE PREPARED BY A QUALIFIED DRAFTSMAN IN ACCORDANCE WITH A.C.I. MANUAL A.C.I. 315. SUBMIT SHOP PLANS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL & MISCELLANEOUS STEEL:
STRUCTURAL GRADE ASTM A-36, Fy = 24,000 PSI MINIMUM. TUBE COLUMNS SHALL BE ASTM A-500, GRADE "B", OR A-501. ALL WELDS SHALL BE 3/16" MINIMUM CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE E60 ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY WABO. ALL BOLTS SHALL BE ASTM A-307. PROVIDE ONE COAT OF PRIMER TO ALL STEEL.

STEEL ROOF DECK:
ROOF DECK SHALL BE 25 GA., 4W CRIMP BY ASC OR EQUAL, GALVANIZED COLOR COATED PANELS. APPLY TO STEEL FRAME WITH THREE #10 SELF-TAPPING SCREWS WITH NEOPRENE WASHERS AT EACH SUPPORT.

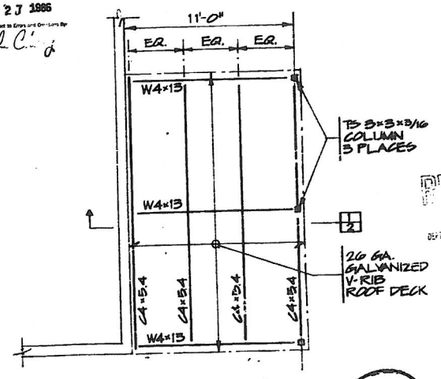
MISCELLANEOUS:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD. PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENINGS HAVE BEEN INSTALLED.

CITY OF SEATTLE DEPT. OF CONSTRUCTION AND LAND USE
MAR 27 1986
APPROVED Subject to Corrections Noted On Plans
P. L. C.



FLOOR PLAN
SCALE: 1/4" = 1'-0"

SECTION 1
SCALE: 3/8" = 1'-0"



ROOF FRAMING PLAN
DISPOSAL BOX ROOF
SCALE: 1/4" = 1'-0"

APPROVED
MAR 27 1986
DEPT. OF CONSTRUCTION & LAND USE

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NO.	REVISION	DATE	APPROVED	DATE
1	REVISE STRUCTURAL NOTES	3/24/86		

DESIGNED D. NELSON
DRAWN L. McCUTCHAN
CHECKED HR DODD
DATE 3/7/86

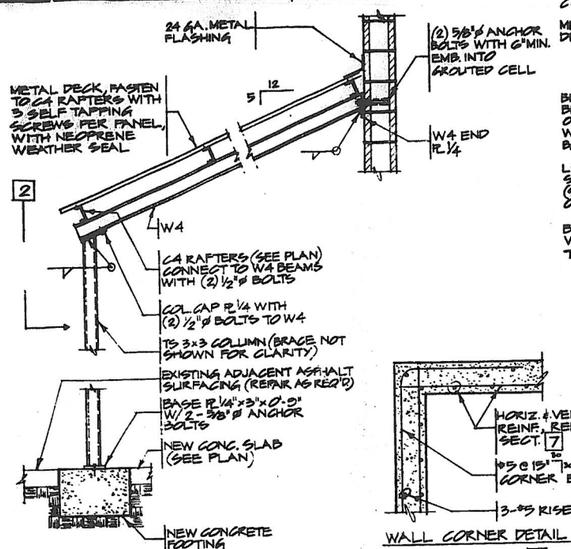
HARVEY R. DODD & ASSOCIATES, INC.
CONSULTING ENGINEERS
2000 FAIRVIEW AVENUE EAST
P.O. BOX 20038
SEATTLE, WASHINGTON 98102
(206) 328-1500

CONTENTS
PLAN AND STRUCTURAL NOTES

PROJECT
MARYATT INDUSTRIES
WASTE WATER TREATMENT
UPGRADE
771 VALLEY ST. SEATTLE, WA.

SHEET
1 of 2

NOTE: If the microfilmed detail is LESS clear than this notice, it is due to the



SECTION 1
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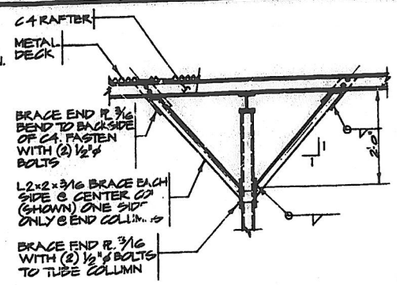

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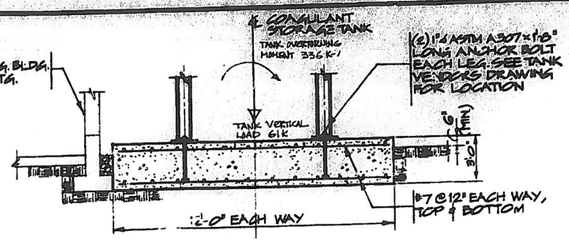

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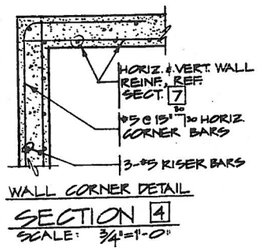
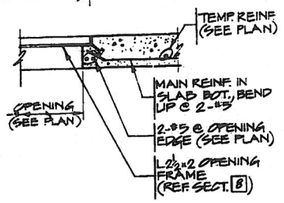


WALL CORNER DETAIL
SECTION 4
SCALE: 3/4"=1'-0"



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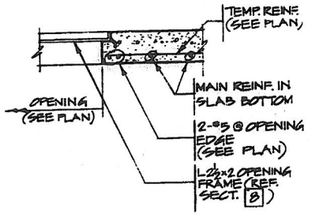

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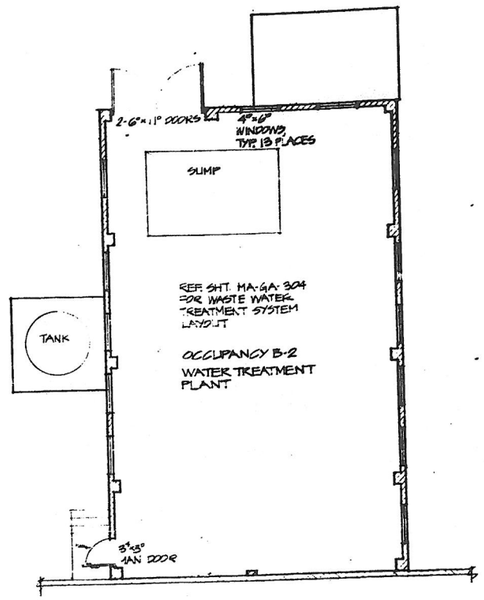
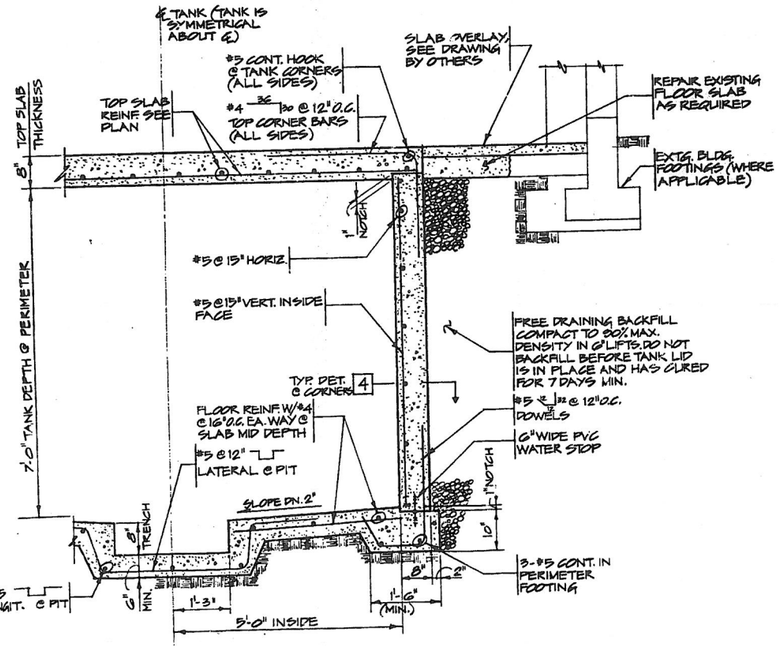


FLOOR PLAN
SCALE: 1/8"=1'-0"

1



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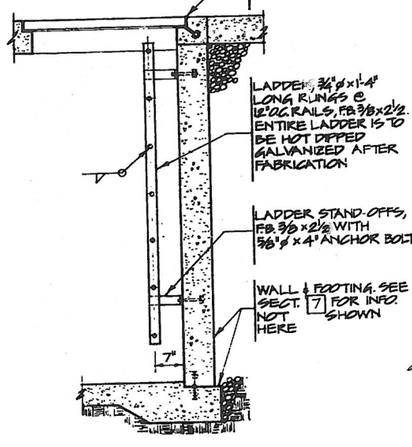

SECTION 8
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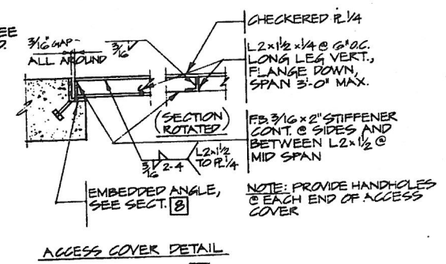

ACCESS COVER DETAIL
SECTION 9
SCALE: 3/4"=1'-0"

CITY OF SEATTLE
DEPT. OF [illegible]
APPROVED
MAR 27 1986
APPROVED Subject to Errors and Omissions Rpt
Paul Chang

RECEIVED
MAR 27 1986
DEPT. OF CONSTRUCTION & LAND USE

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NO.	REVISION	DATE
1	ADDED FLOOR PLAN	3/24/86

APPROVED | DATE

DESIGNED D. NELSON
DRAWN I. BERNER
CHECKED H.R. DODD
DATE 3/7/86

HARVEY R. DODD & ASSOCIATES, INC.
CONSULTING ENGINEERS
2000 FAIRVIEW AVENUE EAST
P.O. BOX 20038
SEATTLE, WASHINGTON 98102
(206) 328-1500

CONTENTS
SECTIONS.

PROJECT
MARYATT INDUSTRIES
WASTE WATER TREATMENT
UPGRADE.
771 VALLEY ST. SEATTLE, WA.

SHEET 2 of 2

JOB NO. 86-056

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original
24X

Your
Seattle
Fire Department

Claude Harris, Chief
Charles Royer, Mayor

PLAN REVIEW SHEET NO. 5035L

March 17, 1986

IPEC USA
P.O. Box 1607
Vashon, Washington 98070

RE: 771 Valley St. - Maryatt Industries

Waste Water Treatment

PLAN APPROVED

This plan is approved, subject to Ordinance, field inspection, and providing the following corrections are made:

1. Provide (accidential) spill containment for the acid storage tank.

2. The acid tank shall be identified in accordance with UFC 79-3.

3. A permit (Code 801) shall be required for the storage of the hazardous material (acid).

Very truly yours,

CLAUDE HARRIS, CHIEF
Seattle Fire Department

John Haigh

John Haigh, Senior Engineer

CH:JH:dlk
RvH

cc: Department of Construction and Land Use, #8601226

COMMERCIAL PLAN COVER SHEET

Department of Construction and Land Use ◻ City of Seattle ◻ William J. Justice P.E., Director ◻ Charles Royer, Mayor
400 Municipal Building, Seattle, W.A. 98104

4/1/84

PURPOSES & USE OF DCLU PLAN COVER SHEET:

This cover sheet should be attached to the front of all plan sets submitted for zoning and building permit approvals. The plan cover sheet organizes the essential information needed to allow an expeditious plan review and permit issuance. Applicants and DCLU staff can use the cover sheet to quickly screen applications for obvious errors or omissions.

Applicants should fill in each information category on the cover sheet. If more room is needed please indicate the location of support information and calculations. If the category of information does not apply to your proposal, mark NA (not applicable). Circle YES or NO when appropriate. Do not use pencil.

This plan cover sheet will be retained as part of DCLU's permanent file on this project and will be used to verify code compliance. Therefore, if plans have been prepared by a licensed engineer or architect, his/her stamp, seal and signature must appear on this cover sheet. The applicant is responsible for assuring the accuracy and consistency of the information. Quantities should not be used for bidding purposes.

APPLICATIONS WITHOUT DCLU COVER SHEETS WILL NOT BE ACCEPTED FOR PROCESSING EXCEPT FOR PERMITS ISSUED "SUBJECT TO FIELD INSPECTION" AND CERTAIN MECHANICAL PERMITS. IF YOU HAVE QUESTIONS ON WHETHER PLANS ARE REQUIRED FOR YOUR PROJECT VISIT THE PERMIT APPLICATION CENTER EXPRESS INFORMATION STATION, 5TH FLOOR, MUNICIPAL BUILDING.

A. PROPERTY ADDRESS (if assigned): MARYATT INDUSTRIES.
771 VALLEY ST SEATTLE WA 98109

B. DESCRIBE WORK TO BE DONE: INSTALLATION OF WASTE WATER TREATMENT EQUIPMENT, WASTE WATER & STORAGE SUMP AND COAGULANT STORAGE TANK IN EXISTING ATTACHED GARAGE.

C1

C. LAND USE AND ZONING INFORMATION: (Refer to Kroll Map for C1-5)

(1) SPECIFY ZONING CLASSIFICATION: MANUFACTURING
(2) SPECIFY SHORELINE CLASSIFICATION: N/A
(3) IS PROJECT IN A DESIGNATED GREENBELT YES/(NO)
(4) IS THE PROJECT IN AN ENVIRONMENTALLY SENSITIVE AREA? YES/(NO)
(5) IS PROJECT AN HISTORICAL LANDMARK OR LOCATED IN A PROTECTED DISTRICT?
YES/NO NAME:
(6) IS PROJECT A MAJOR INSTITUTION YES/(NO)
(7) (a) EXISTING USE(S)/GROSS SQ. FT. OF EACH USE:
USE: LEVEL 1 B-2 LAUNDRY SQ. FT. 29410 BSMT
USE: LEVEL 2 B-2 " SQ. FT. 29410 1ST FLOOR
USE: LEVEL 3 B-2 " SQ. FT. 29410 2ND FLOOR
USE: B-1 GARAGE SQ. FT. 2280
(b) PROPOSED USE/GROSS SQ. FT. OF EACH USE:
USE: B-2 LAUNDRY SQ. FT. 29410
USE: B-2 " SQ. FT. 29410
USE: B-2 " SQ. FT. 29410
USE: B-2 WATERFRONT MFG SQ. FT. 2280
(c) CHANGE OF USE PROPOSED: YES / NO
IF "YES", FROM B-1 TO B-2
(8) PARKING - (NUMBER OF SPACES)
(a) NO. OF EXISTING SPACES: N.A
(b) TOTAL NUMBER REQUIRED: N.A
(c) TOTAL NUMBER PROPOSED: N.A
(d) LOCATION: NO. ON-SITE N.A NO. OFF-SITE N.A

C2

(9) LANDSCAPING -
(a) REQUIRED PLANTING AREA: N.A SQ. FT.
(b) PROPOSED: N.A SQ. FT.
(c) REQUIRED NUMBER OF TREES: N.A
(d) PROPOSED NUMBER OF TREES:
PLAN SHEET NUMBER ____ SHOWS LANDSCAPING PLAN.
(10) LOT AREA - 59820 SQ. FT.
(11) (a) LOT COVERAGE PROPOSED: 32868 SQ. FT. 54 PERCENT
(b) MAXIMUM ALLOWED: 100550 SQ. FT. 85% PERCENT
(12) (a) BUILDING HEIGHT PROPOSED PER ZONING/LAND USE CODE: NO CHANGE FT. IN.
(b) MAXIMUM ALLOWED: FT. IN.
(13) (a) FLOOR AREA RATIO BONUS? YES/(NO)
(b) MAXIMUM ALLOWED:
(c) BONUS AREA:
(14) SETBACKS/YARD REQUIRED FOR PROJECT? YES / (NO)
IF REQUIRED, COMPLETE THE FOLLOWING:
(a) FRONT (b) REAR
PROPOSED: FT. IN. PROPOSED: FT. IN.
MINIMUM ALLOWED FT. IN. MINIMUM ALLOWED FT. IN.
(c) SIDE(1) (d) SIDE(2)
PROPOSED: FT. IN. PROPOSED: FT. IN.
MINIMUM ALLOWED FT. IN. MINIMUM ALLOWED FT. IN.
(e) SHORELINE SETBACK
PROPOSED: FT. IN.
MINIMUM ALLOWED FT. IN.
(15) SETBACKS/YARD EXCEPTIONS, SPECIAL CONDITIONS:

C3

(16) OTHER BULK REQUIREMENTS, SPECIAL CONDITIONS:

D. BUILDING CODE INFORMATION:

(1) FIRE PROTECTION
(a) Sprinkler system required? (YES) / NO
Existing system? (YES) / NO New system? YES / NO
(b) Other fire protection systems
Halon ____
Rangehood ____
Other ____
(c) Fire alarm systems (YES)/NO
(d) Standpipe (include class) ____
Location ____
(2) NO. OF STORIES ____ BASEMENT(S) 1 HEIGHT NO CHANGE FT. (calculated per Building Code)
(3) FIRE DISTRICT: N.A
(4) OCCUPANCY GROUP, TYPE OF CONSTRUCTION, LOCATION AND GROSS FLOOR AREA (GFA) FOR EACH OCCUPANCY (measured to the exterior face of exterior walls including balconies):

NOTE: Provide GFA for heated and unheated spaces on each floor plan.

LEVEL	USE/OCCUPANCY	TYPE	AREA (sq ft)	VALUATION
1	B-2	II		NO CHANGE
2	B-2	II		NO CHANGE
3	B-2			NO CHANGE
GARAGE	B-2	II-N.	2467	$50,000.00
TOTAL				$50,000.00

C4

E. ENERGY CODE INFORMATION N.A

(1) BUILDING ENVELOPE
Indicate Approach Used: Chap.6 ____ Chap.4 ____ Chap.5 ____
(a) CHAPTER 6: Prescriptive

INSULATION MINIMUMS	Required	Proposed
- Roof/Ceiling	R-30	
- Opaque Wall	R-11	
- Floor Over Unheated Space	R-11	
- Slab Perimeter On Grade	R-4.25	

GLAZING PERCENTAGE MAXIMUM
Show calculations in sq. ft. and %:
(Glass & Sash Area) + (Skylight Area x 2) = 21% maximum / Gross Wall Area
NA ( ) + (x2) = %
(b) CHAPTER 4: Component Performance / CHAPTER 5: Systems Analysis
U VALUE MAXIMUM (including glass with sash multiplier and stud, joist and rafter corrections)
N.A.

	Required	Proposed
- Roof/Ceiling		
- Gross Wall		
- Floor Over Unheated Space		
- Overall (Only if averaged for trade off)		
SLAB PERIMETER ON GRADE	R-4.25	
OTTV MAXIMUM (as applicable)		

(2) LIGHTING SYSTEM
MAXIMUM INSTALLED WATTS

C5

(3) MECHANICAL SYSTEM N.A
(a) SPACE HEATING SYSTEM TYPE:
Elec. furnace ___ Elec. baseboard ___ Elec. heatpump ___
Gas furnace ___ Oil furnace ___ Other ___
Existing ___ watt/sq. ft. or ___ BTU/sq. ft.
New ___ watt/sq. ft. or ___ BTU/sq. ft.
TOTAL CAPACITY ___
(b) SPACE COOLING SYSTEM TYPE (if installed):
___ watt/sq. ft. or ___ BTU/sq. ft.
TOTAL CAPACITY ___
(3) HEAT LOSS CALCULATIONS ATTACHED? YES/NO
(4) OTHER ENERGY INFORMATION/SPECIAL NOTES:

F. FOUNDATION AND GRADING
(a) SHOW FILL CU. YDS. & CUT CU. YDS. IN EXCESS OF ALLOWABLE INCIDENTAL GRADING OR IF ON SUBMERGED LAND.
(b) HAS A SOILS REPORT BEEN PREPARED? YES/NO

G. APPLICANT INFORMATION:
(a) OWNER'S NAME:
ADDRESS: ZIP
PHONE:
(b) ARCHITECT/AGENT'S NAME:
ADDRESS: ZIP
PHONE:

C6

PREVIOUS/PENDING LAND USE APPROVALS RELATING TO THIS PROJECT:

TO BE COMPLETED BY DCLU:

CONDITIONS OF APPROVAL

SHOP DRAWINGS REQUIRED

APPROVAL STAMPS

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAR 27 1986
APPROVED Subject to Corrections Noted
Paul Clegg

C7

SPECIAL INSPECTION REQUIRED

BY CITY CERTIFIED SPECIAL INSPECTORS
FOR THE FOLLOWING TYPES OF WORK:
(BY CASCADE TESTING)
UNDERPINNING OF EXISTING FOUNDATION

823123

PERMIT ISSUANCE AUTHORIZATION

REVIEWER	Initial Concurrence Initials	Date	Revised Concurrence Initials	Date
Zoning	[illegible]	3-10-86		
Shorelines	NA			
Protect Dists	NA			
Elevator	NA	RJB		
Water	NA			
Fire		RJH 3-17-86		
Health	NA			
Traffic	NA			
Drainage	NA	RJB		
Street Use				
Energy	NA			
Mechanical	NA			
Environmental	NA			
Issued by:	O Bergheon		3-27-86	
Site inspection by:	NA	RJB		

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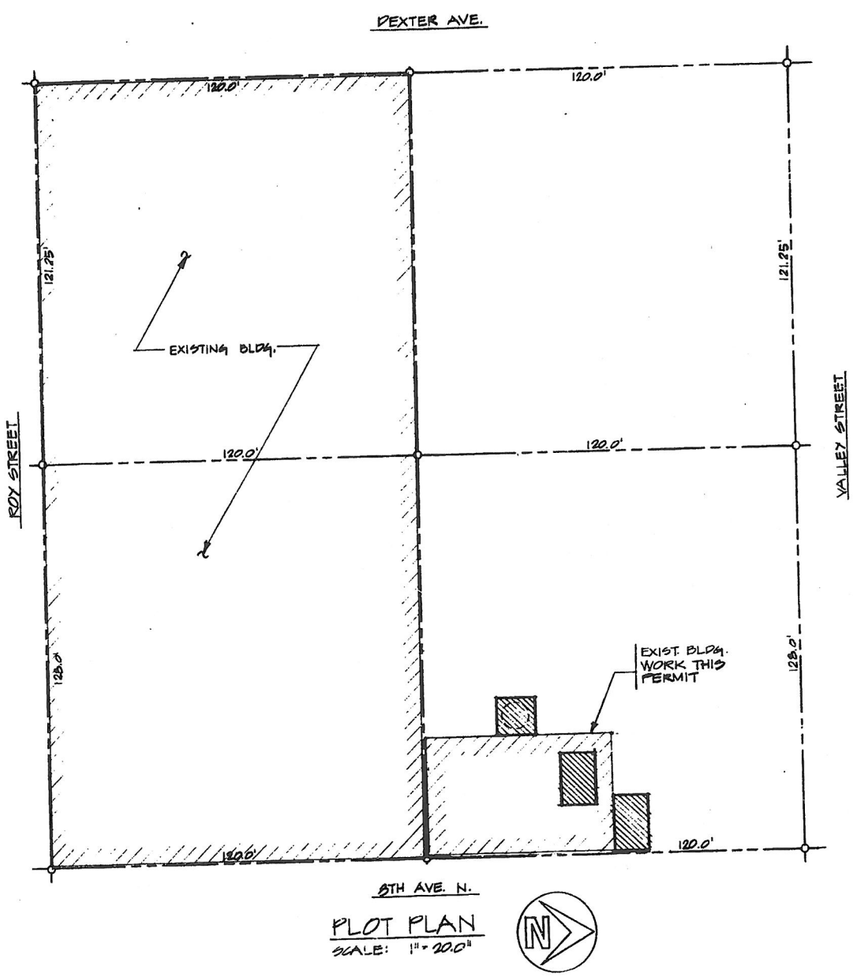
C8

9 9 C

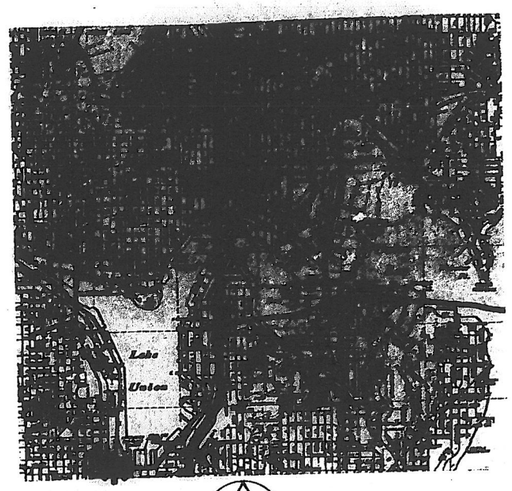
2 of 2

8600580000 MARYATT INDUSTRIAL WASTE TREATMENT SYSTEM AND SUMP PER PLANS 09771 VALLEY PROJECT NR: 8601 1ST 04031 LAT

NOTE: If the microfilmed drawing



PLOT PLAN
SCALE: 1" = 20.0'



VICINITY MAP
SCALE: 1" = 2640

LEGAL DESCRIPTION

LOTS 1 to 8 BLOCK 7
EDEN ADDITION TO THE CITY OF SEATTLE.

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAR 2 7 1986
APPROVED Subject to Errors and Omissions By:

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NO.	REVISION	DATE	APPROVED	DATE

DESIGNED F. HOFMEISTER
DRAWN G. ROBINSON
CHECKED
DATE 3-10-86

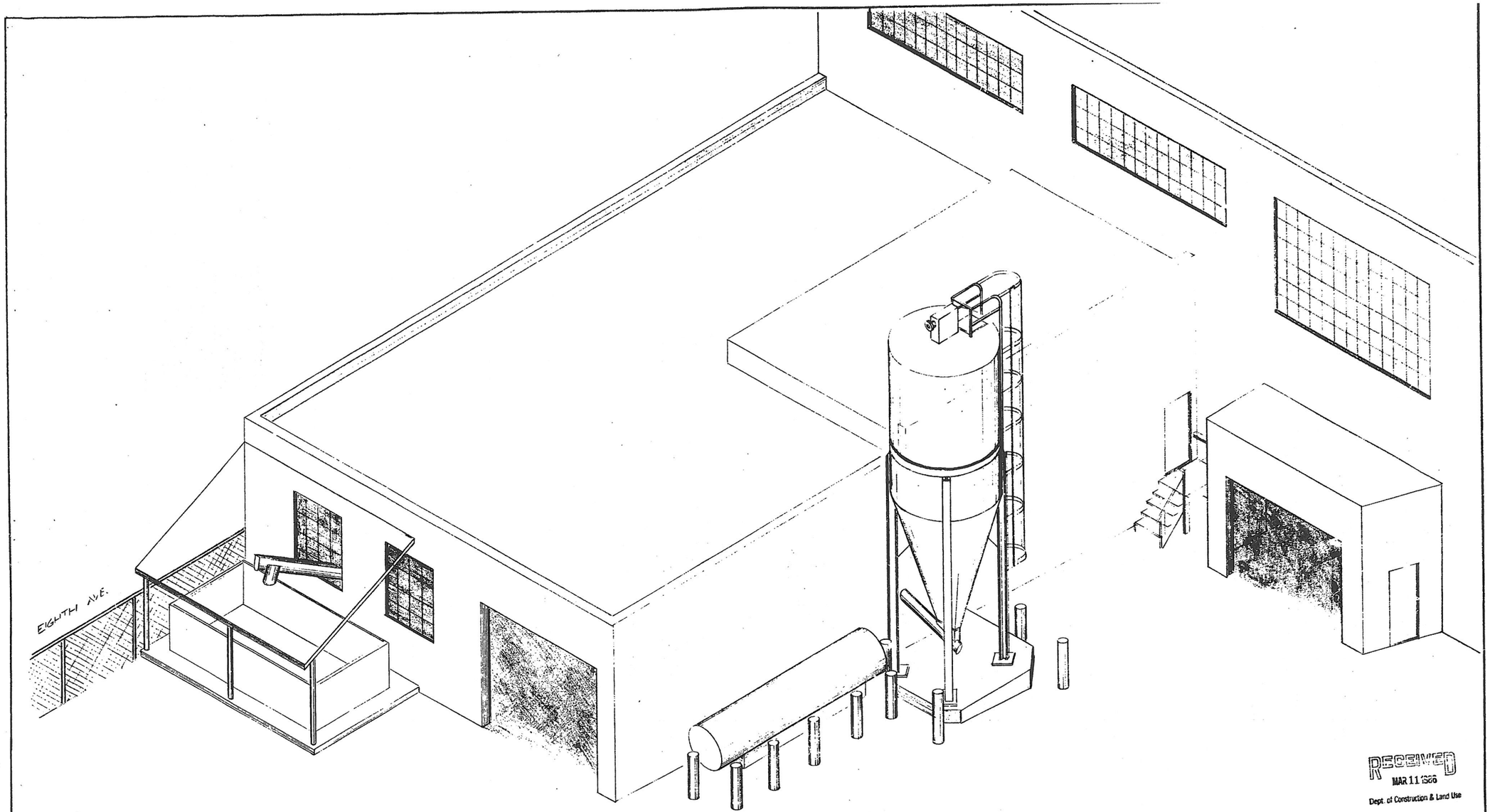
HARVEY R. DODD & ASSOCIATES, INC.
CONSULTING ENGINEERS
2000 FAIRVIEW AVENUE EAST
P.O. BOX 20038
SEATTLE, WASHINGTON 98102
(206) 328-1500

CONTENTS
PLOT PLAN, VICINITY MAP
LEGAL DESCRIPTION

PROJECT
MARYATT INDUSTRIES
WASTE WATER TREATMENT
UPGRADE
771 VALLEY ST. SEATTLE, WA.

SHEET
P-1
JOB NO. 86-036

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original
24X



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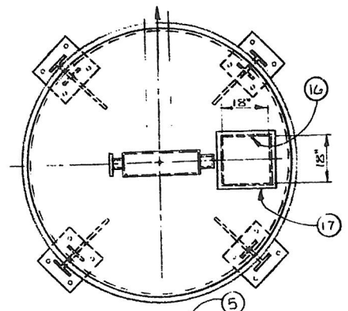
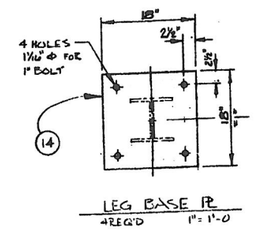
IPEC-USA		SOUTHEAST VIEW OF GARAGE		
IPEC CONSULTANTS LTD. P.O. BOX 1237 VASHON, WASH. 98070		MARYATT		
DRN MMF	DATE FEB. 26 86	SCALE 1/4" = 1'-0	DWG. NO. MA-GA-312	REV.
CHK'D	W.O.			

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

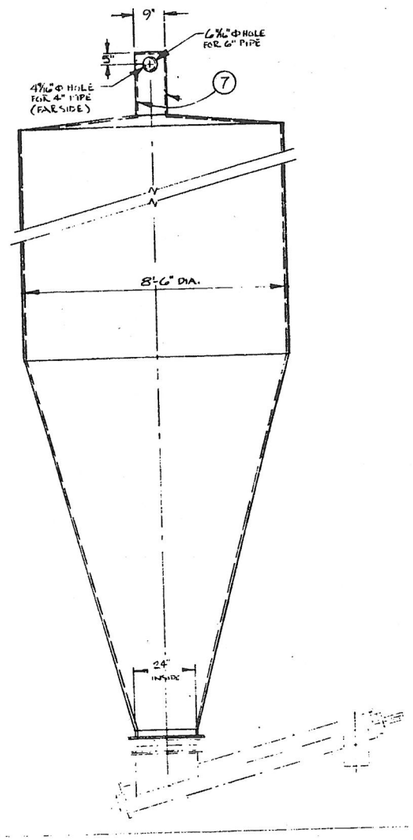
24X



STORAGE TANK
SCALE ½"=1'-0



LEG BASE PL
4 REQ'D 1"=1'-0



TITLE: STORAGE TANK			DWG NO.: MA-FD-505	REV
ITEM	SERVICE/SYMBOL	QTY	DESCRIPTION	
1	BLOWPIPE	1	4" Ø MS STD PIPE × 6" LG.	
2	FLANGE	1	PL ½" MS 9" DIA.	
3	TARGET PIPE	1	6" Ø MS. PIPE × 6" LG	
4	FILLER PL	1	PL ½" MS. 6⅜" DIA.	
5	BOX TOP	1	PL ⅜" MS. 9" × 24" LG.	
6	BOX ENDS	2	PL ⅜" MS. 9" × 24" LG	
7	BOX SIDES	2	PL ⅜" MS. 24" × 24" LG	
8	TANK WALL	1	PL ½" MS. 13'-6" × 26'-7⅞" LG.	
9	TANK TOP	1	PL ⅜" MS. 8'-6" DIA. × 4" DEEP CONE	
10	TANK BOTTOM	1	PL ⅜" MS SQUARE TO ROUND CONE	
11	BOTTOM FLANGE	1	L 6×4 MS. 2" × 5" × 92" LG.	
12	LEG	4	WB×8 @ 31.0 MS. × 19'-2" LG.	
13	GUSSET	4	PL ½" MS 1'-2" × 4'-0 LG.	
14	LEG BASE PL	4	PL 1" MS 18" × 18" LG (DRILL HOLES)	
15	TANK RING	1	C 4 @ 6.25 MS. × 26'-8½" LG.	
16	COVER FLANGE	1	L 1½" MS. 1½" × 1½" × 84" LG.	
17	COVER	1	PL ⅜" MS. 21" × 21" LG.	

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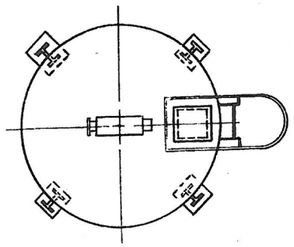
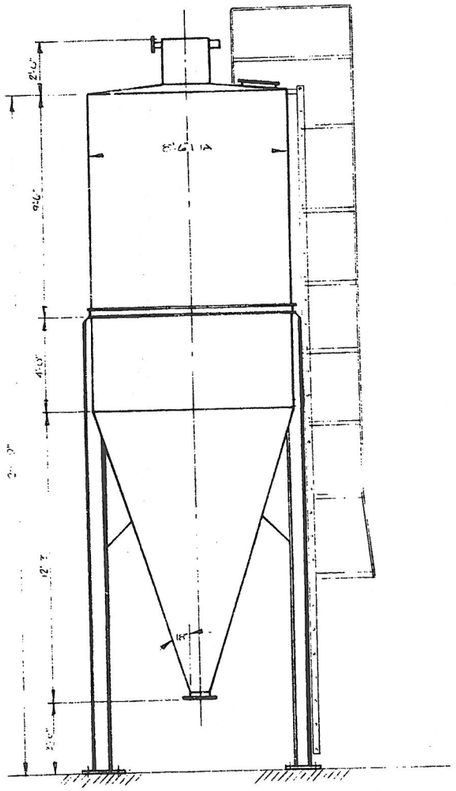
IPEC-USA — STORAGE TANK			
IPEC CONSULTANTS LTD. P.O. BOX 1027 VANCOUVER, WASH. 98670		MARYATT	
DRN HMF	DATE FEB 19 '88	SCALE ½"=1'-0	DWG. NO. MA-FD-505
CHK'D	W.O.		REV.

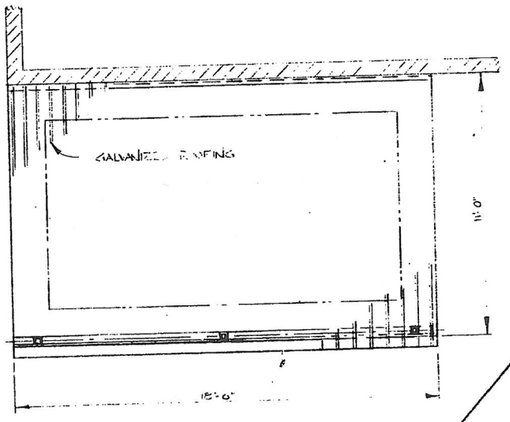
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

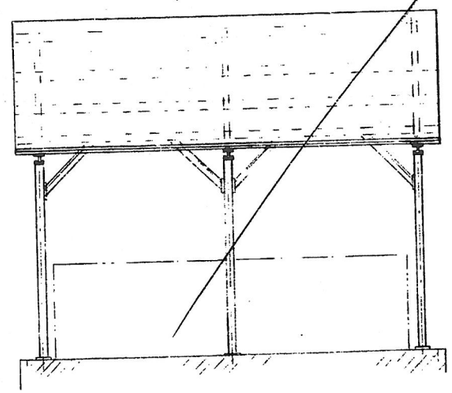
24X



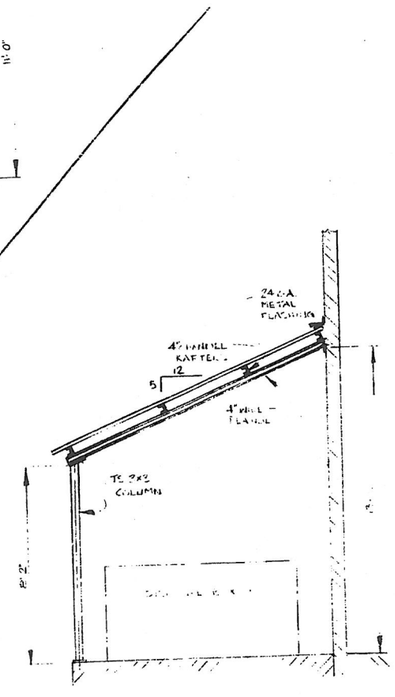


STORAGE TANK





DISPOSAL BOX ROOF



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IPEC-USA

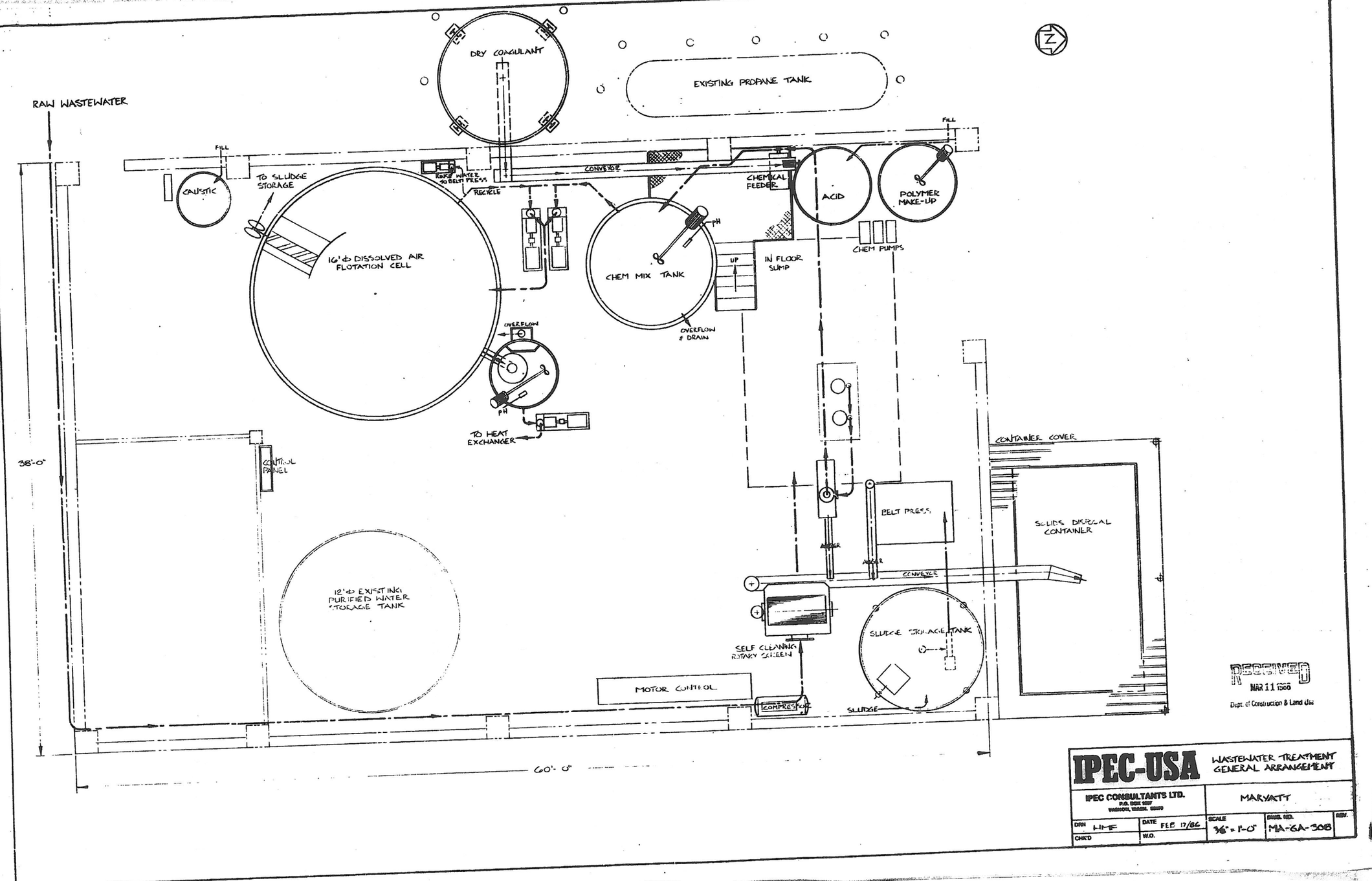
STORAGE TANK & DISPOSAL BOX ROOF PLAN & ELEVATIONS

IPEC CONSULTANTS LTD.
P.O. BOX 1017
VASHON, WASH. 98070

DRN	LMF	DATE	FEB 10/88	SCALE	3/8" = 1'-0"	DWG. NO.	MA-GA-306	REV.
CHK'D		W.O.						

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



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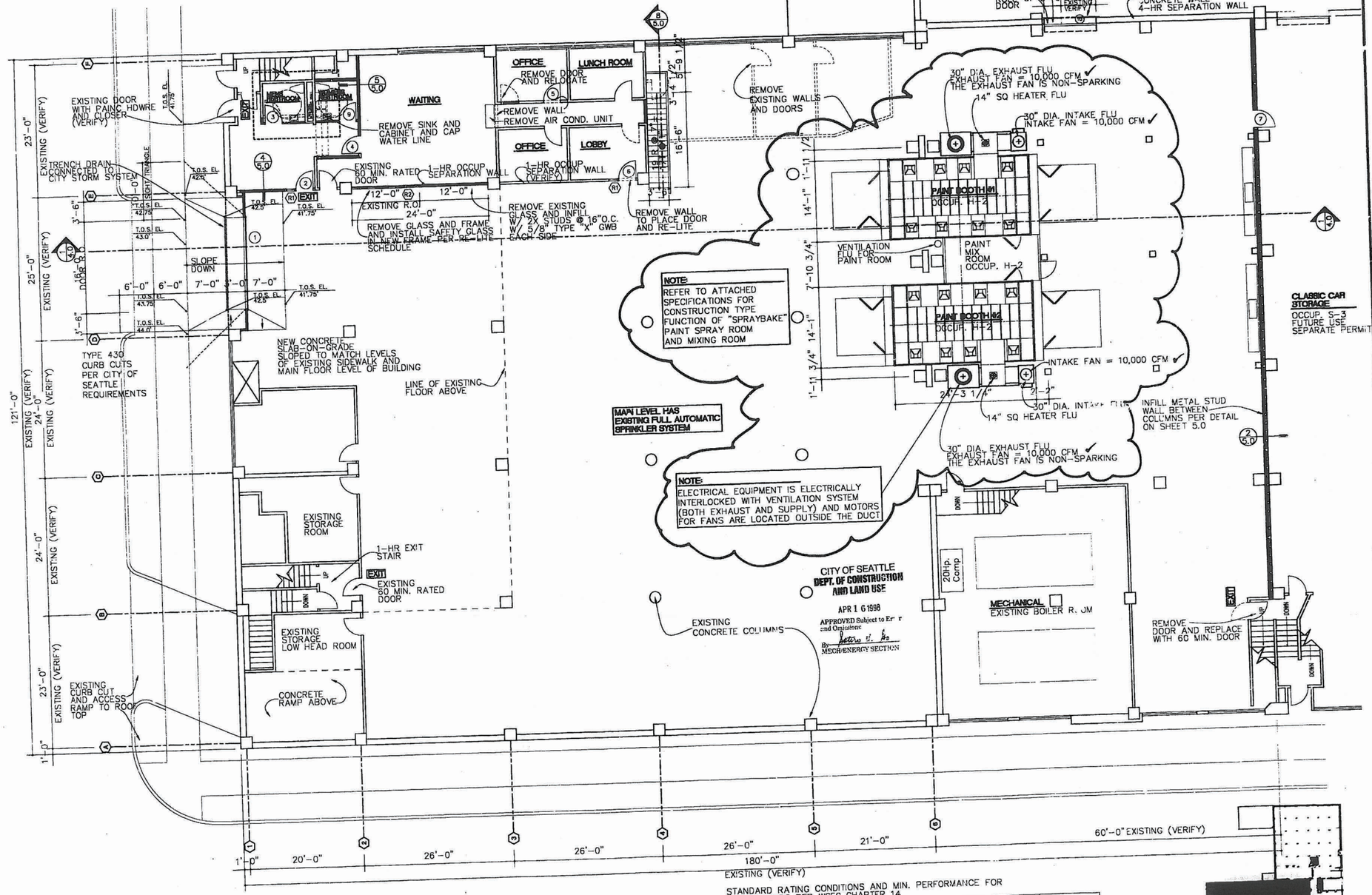
IPEC-USA WASTEWATER TREATMENT GENERAL ARRANGEMENT

IPEC CONSULTANTS LTD. P.O. BOX 1007 VANCOUVER, WASH. 98660	MARYATT	
DRN HHF	DATE FEB 17/86	SCALE 3/8" = 1'-0"
CHK'D	W.O.	DWG. NO. MA-GA-308

REV.

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24x



MAIN FLOOR PLAN

TOTAL SQ. FT. 21,870

SCALE: 1/8" = 1'-0"

PROJECT NORTH NORTH

WALL LEGEND

- EXISTING
- NEW
- TO BE REMOVED

FLOOR AREA TO HAVE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT

STANDARD RATING CONDITIONS AND MIN. PERFORMANCE FOR UNIT HEATERS PER WSEC CHAPTER 14

EQUIPMENT TYPE AND RATING	CATAGORY	SUB-CATEGORY & RATING CONDITIONS	MINIMUM RATING		STANDARD
			STEADY STATE	SEASONAL OR PART LOAD	
ALL SIZE GAS UNIT HEATERS	CATAGORY	MAX. RATED CAPACITY/ MIN. RATED CAPACITY	78% E.F. 74% E.F.	NA NA	ANSI Z83.8-1985

1. MINIMUM AND MAXIMUM RATINGS AS PROVIDED FOR AND ALLOWED BY THE UNIT'S CONTROLS.
2. FOR MULTI-CAPACITY EQUIPMENT THE MINIMUM PERFORMANCE SHALL APPLY TO EACH STEP PROVIDED MULTI-CAPACITY REFERS TO MANUF. PUBLISHED RATING FOR MORE THAN ONE CAPACITY MODE ALLOWED BY THE PRODUCT'S CONTROLS.

KEY PLAN
No Scale

CHEBMORE/BUCK architecture
[redacted]
120 LAKE ST SOUTH #120
KIRKLAND, WA 98033
(206)827-1567

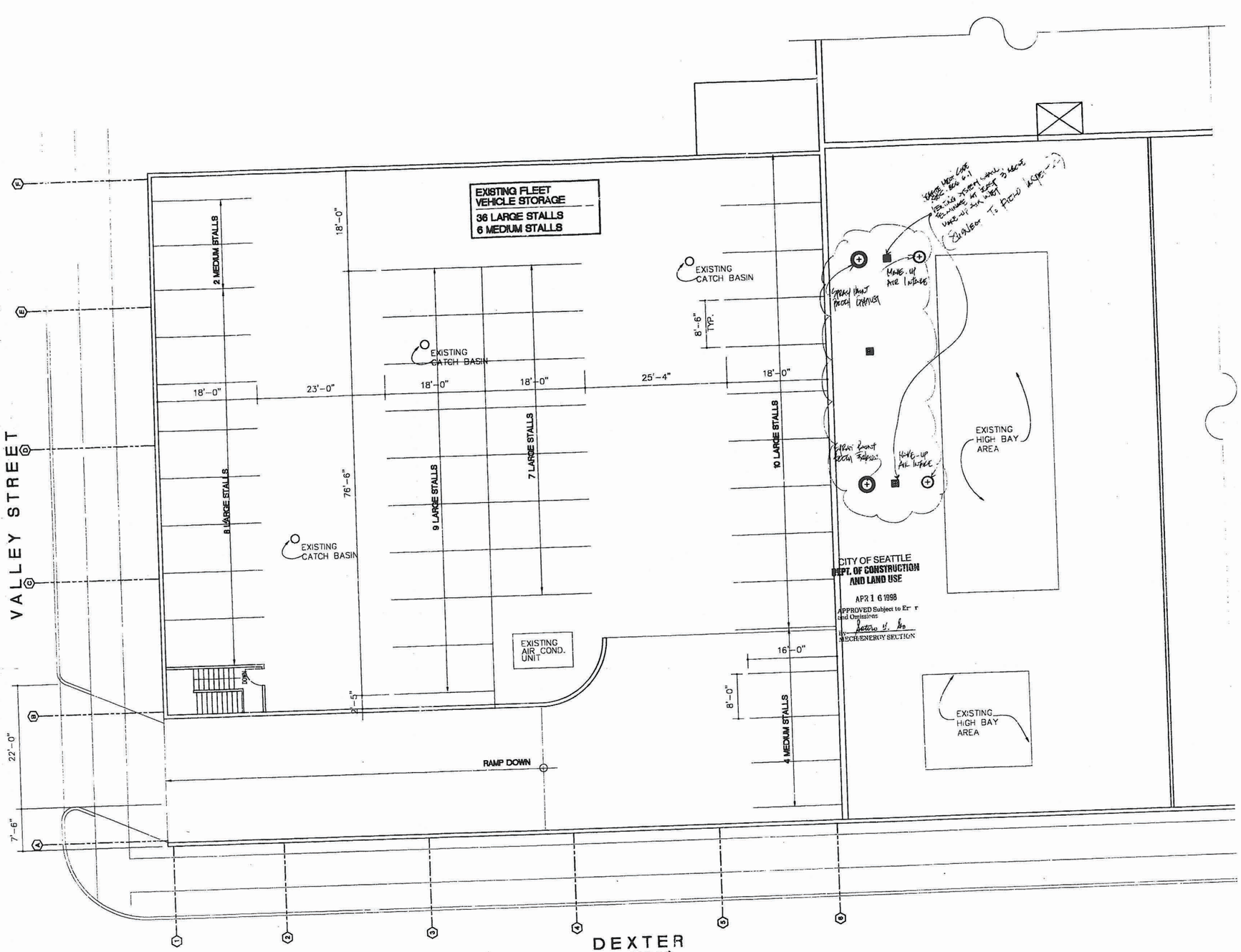
PERMIT SET

1 12-08 CLARIF.

TENNANT IMPROVEMENT WORK
FOR AUTOHOUND, DKB ENTERPRISES
7721 VALLEY STREET
SEATTLE, WA 98109

MAIN FLOOR PLAN

Sheet No. 2.0
Project No. 9720
Date: 10-22-97



EXISTING ROOF PARKING PLAN (FOR REFERENCE ONLY)
NO WORK TO THIS LEVEL

SCALE: 1/8"=1'-0"

PROJECT NORTH

CHEBMORE/BUCK
architecture
[redacted]
123 LAKE ST SOUTH #205
KIRKLAND, WA 98033
(206)827-1057

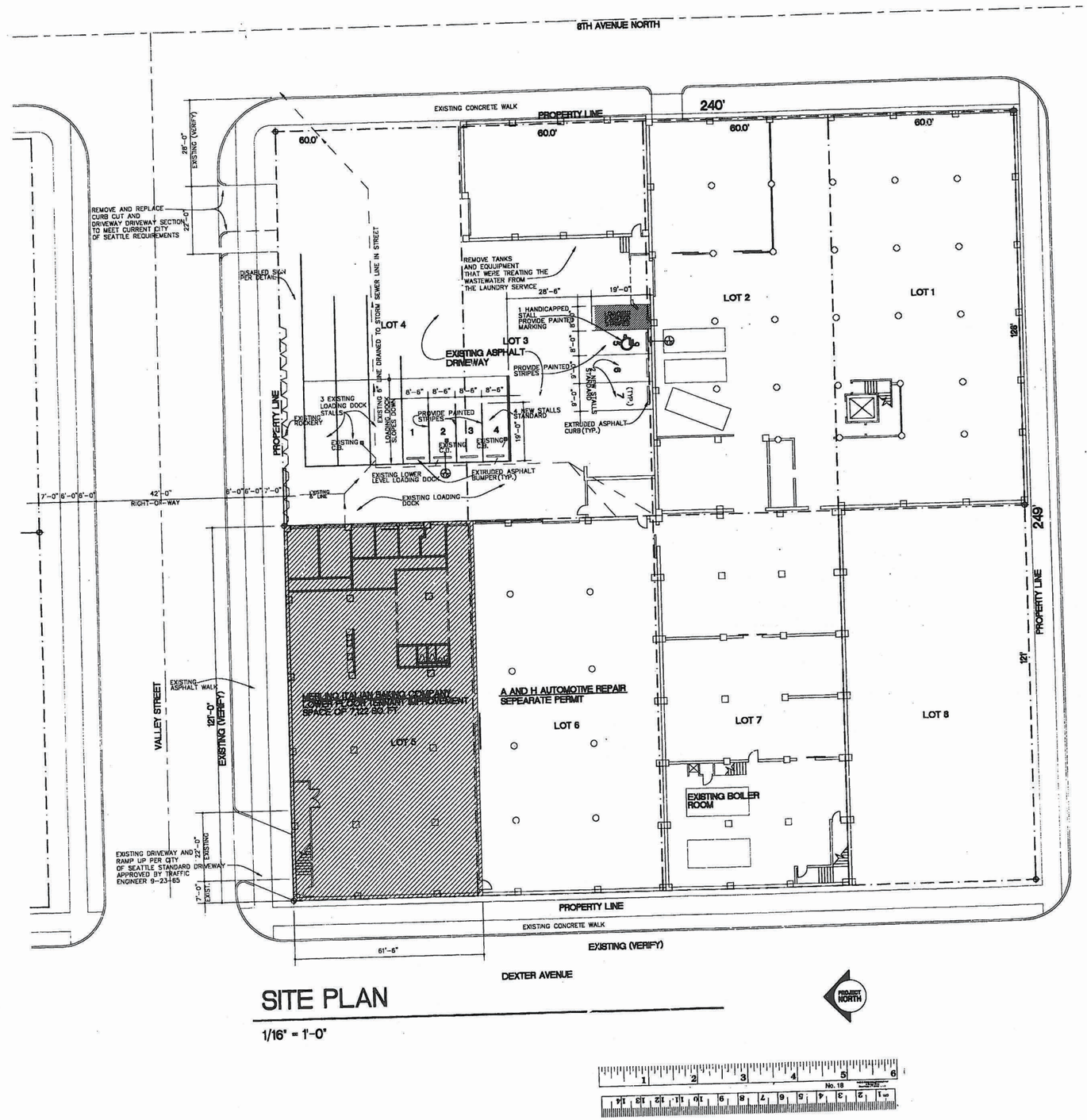
PERMIT SET

No.	Date	Rev.

TENNANT IMPROVEMENT WORK
FOR AUTOHOUND
771 VALLEY STREET
SEATTLE, WA 98109

ROOF PARKING PLAN

Sheet No. 3.1
Project No. 9736
Date: 12-03-97



SITE PLAN

1/16" = 1'-0"

SHEET INDEX

1.0 SITE PLAN
2.0 BASEMENT FLOOR PLAN
3.0 MEZZANINE FLOOR PLAN
3.1 ROOF PLAN
4.0 BUILDING SECTION, EXTERIOR ELEVATION, AND DOOR SCHEDULE
5.0 WALL SECTIONS, RESTROOM PLAN AND ELEVATIONS
6.0 EXISTING BASEMENT FLOOR PLAN
7.0 EXISTING MAIN LEVEL FLOOR PLAN
8.0 EXISTING UPPER FLOOR PLAN

BUILDING OWNER
AMERICAN LINEN COMPANY, DAVID MARYATT
5501 LAKEVIEW DRIVE
SEATTLE, WA

PROJECT DATA

PROJECT DESCRIPTION
CONVERT COMMERCIAL LAUNDRY SERVICE SPACE TO BAKERY AND BAKERY DISTRIBUTION AREA. PARKING SPACES WILL PROVIDED AT EXISTING ASPHALT AREA ON NORTHEAST CORNER OF LOT.

LEGAL DESCRIPTION
LOTS 1 THRU 8, BLOCK 7, EDEN ADDITION

ZONING
C-2

CONSTRUCTION TYPE
III-N, III-1 HR

TAX PARCEL NUMBER
APN 224900-0285

OCCUPANCY TYPE
B-OFFICE
F1-BAKERY

RATED ASSEMBLIES
NO SEPERATION REQUIRED BETWEEN BAKERY AND OFFICE SPACE

PARKING
REQUIRED 1 STALL PER 1,000 SQ. FT.
SPACE FOR MERLINO BAKERY 7,360 SQ. FT.
7 OFF-STREET PARKING STALLS REQUIRED

GENERAL NOTES

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT, COPYRIGHT 1997 BY CHESMORE/BUCK ARCHITECTURE. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE VIGOROUSLY PROSECUTED.

ALL CONSTRUCTION SHALL CONFORM TO THE 1994 UNIFORM BUILDING CODE (UBC) AND BE IN ACCORDANCE WITH THE WASHINGTON STATE LAWS AND REGULATIONS AND VARIOUS CODES IMPOSED BY LOCAL AUTHORITIES.

SOILS
UNLESS A SOILS REPORT BY A SOILS ENGINEER IS PROVIDED AND ATTACHED THIS OFFICE ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL. FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2,000 PSF. ALL FOOTINGS SHALL BE CAST ON UNDISTURBED FIRM NATURAL SOIL OR COMPACTED SOIL OF 2,000 PSF BEARING CAPACITY AT LEAST 1'-6" BELOW LOWEST ADJACENT GRADE, FREE OF ORGANIC MATERIALS. FOOTING EXCAVATION SHALL BE FREE OF LOOSE SOILS, DEBRIS, AND FREE WATER AT ALL TIMES. THIS OFFICE TAKES NO RESPONSIBILITY IN VERIFYING THE ACCURACY OF ENGINEERING DATA SUPPLIED BY OTHERS.

CONTRACTORS RESPONSIBILITY
CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWING ONLY WILL NOT SATISFY THIS REQUIREMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES,SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK.

GLAZING
TO BE IN COMPLIANCE WITH UBC CHAP 24, UBC STANDARD NO. 24-1 AND WASHINGTON STATE SAFETY GLASS LAW. EXCEPTIONS ARE AS OUTLINED IN UBC CHAP. 24.

GLAZING IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT SHALL BE SAFETY OR TEMPERED GLASS.

HAZARDOUS LOCATIONS ARE:
GLAZING IN INGRESS AND EGRESS DOORS EXCEPT JALOUSIES

GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL OTHER THAN THOSE ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

1. EXPOSED AREA ON AN INDIVIDUAL PANE GREATER THAN 9 SQUIRE FEET
2. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR
3. EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR
4. ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING

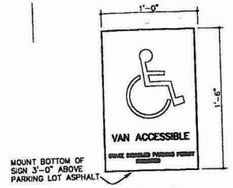
ENERGY
ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH WORK.

APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (H.B. 96).

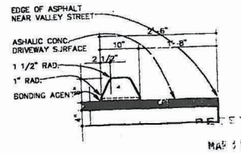
WALLS: INSULATED WITH R-19 BATT (FOR 2x6 WALLS) AND R-13 BATT (FOR 2x4 WALLS) (UNLESS NOTED OTHERWISE).

SLAB ON GRADE: PROVIDE EXTRUDED RIGID CLOSED CELL INSULATION R-10. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN FROM THE TOP OF THE SLAB TO THE BOTTOM OF THE FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO TIE SLAB AND FOOTING TOGETHER.

VAPOR BARRIERS: AN APPROVED VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ALL ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOISTS, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (H.B. 96).



1 SIGN DETAIL
1 1/2" = 1'-0"



2 CURB DETAIL
3/4" = 1'-0"

RECEIVED
MAR 3 0 1998

CHESMORE/BUCK architecture
[redacted]
120 LAKE ST SOUTH #200
KIRKLAND, WA 98033
(206)827-1867

PERMIT SET

No.	Date Revision
1	PLAN REVISIONS

TENNANT IMPROVEMENT WORK
FOR MERLINO ITALIAN BAKING COMPANY

771 VALLEY STREET
SEATTLE, WA 98109

SITE PLAN

Sheet No. 1.0
Project No. 9736
Date 12-03-97

MECH. EQUIP. SCHED.

EQUIP.	MANUF. / MODEL #	CFM
MAKEUP AIR UNIT #1	KING KPST0 1/2 HORSE	1,750 CFM
MAKEUP AIR UNIT #2	JANITORAL A4B-10	1,600 CFM
RACK OVEN #1	REVENT 6S13SG	600 CFM COMBUSTION VENT
RACK OVEN #2	ADAMATIC 1XTCROG	600 CFM COMBUSTION VENT
		600 CFM 11000 VENT
EXHAUST FAN	PAYTON IC792	600 CFM

NOTE: ROOF FANS MUST HAVE MANUAL ON/OFF SWITCH PLUS LINK TO AUTO ON WHEN EITHER OVEN IS SWITCHED ON.

VENT ALL DUCT WORK FOR OVEN UNITS HORIZONTALLY OUT EXTERIOR WALL AND UP 40" ABOVE EXISTING LOADING DOCK CANOPY

STEAM EXHAUST ROOF MOUNTED FAN

MAKEUP AIR UNIT #2

MAKEUP AIR UNIT #1

COMBUSTION EXHAUST

RACK OVEN #1 DBL RACK OVEN

RACK OVEN #2 COMPACT RACK OVEN

(2) SLICERS 110V

(2) 80 QUART HOBART MIXERS 208 3-PHASE

GAS RANGE EXTEND GAS LINE TO THIS LOCATION

DOUGH SHEETER 208 3-PHASE DROP FORM CEILING

SHEET METAL HOOD TYPE I 4'-6" X 4' BY EVERGREEN REFRIG.

DISHWASHER TO BE PROVIDED BY OWNER

SIMILAR BATHROOM CONFIG. MIRROR OF MENS RESTROOM

CONCRETE INFILL EXISTING FLOOR OPENING PER DETAIL

MOP SINK

14' X 14' WALK-IN COOLER 208 3-PHASE

RELOCATE DBL AND SINGLE SINKS AND COUNTERTOP FROM MALONEY BUILDING

HAND SINK

MENS RESTROOM

WOMENS RESTROOM

REMOVE AND DISPOSE OF WALLS AND CABINETS

SHIPPING/ RECEIVING

OFFICE EXISTING

OFFICE EXISTING

OFFICE EXISTING

LOBBY EXISTING

CORRIDOR 1-HR RATED

6'W X 3'H RE-LITE

REMOVE DOOR AND FRAME AND DISPOSE EXISTING 20 MIN. RATED DOOR (VERIFY)

NEW METAL FRAME AND DOOR AT ENTRY TO FIT INTO EXISTING WINDOW ROUGH OPENING

NEW METAL ROLL-UP DOOR TO FIT INTO EXISTING DOOR ROUGH OPENING

WAITING

PARTS

OFFICE

LUNCH

FILES

EXIT

MENS RESTROOM FOR SCOTT'S H AND A (SEPARATE PERMIT)

REMOVE MASONRY WALL TO FIT NEW DOOR FRAMES

WOMENS RESTROOM FOR SCOTT'S H AND A (SEPARATE PERMIT)

EXISTING 8" CMU BLOCK WALL

INFILL DOOR OPENING WITH CMU BLOCK TO MATCH EXISTING

REMOVE EXISTING METAL SLIDING DOOR AND DISPOSE

REVIEW EXTERIOR ELEVATION ON SHEET 4.0

SCOTT'S H AND A AUTOMOTIVE REPAIR

PROPOSED USE SEPARATE PERMIT

MERLINO ITALIAN BAKING COMPANY 7,122 SQ. FT. TENNANT IMPROVEMENT

ONE HOUR OCCUP. SEPARATION WALL

BOILER ROOM

EXISTING USE

ONE HOUR OCCUP. SEPARATION WALL

REMOVE DOOR AND PORTION OF CONCRETE WALL ON EACH SIDE OF OPENING

EXIT CORRIDOR 1 HR. CONST.

UP

1'-0" 20'-0" 26'-0" 14'-6"

61'-6" EXISTING (VERIFY)

1 DETAIL AT FLOOR
SCALE: 3/8" = 1'-0"

BASEMENT FLOOR PLAN

MERLINO SQ. FT. 7,122

SCALE: 1/8" = 1'-0"

PROJECT NORTH NORTH

WALL LEGEND

EXISTING

NEW

TO BE REMOVED

FLOOR AREA TO HAVE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT

RECEIVED
APR 3 1998
Dept. of Construction & Land Use

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
APR 06 1998
APPROVED Subject to Errors and Omissions
By: Peter V. Ho
MECH/ENERGY SECTION

KEY PLAN
No Scale

CHESMORE/BUCK architecture
[redacted]
120 LAKE ST SOUTH #205
KIRKLAND, WA 98033
(206)827-1667

PERMIT SET

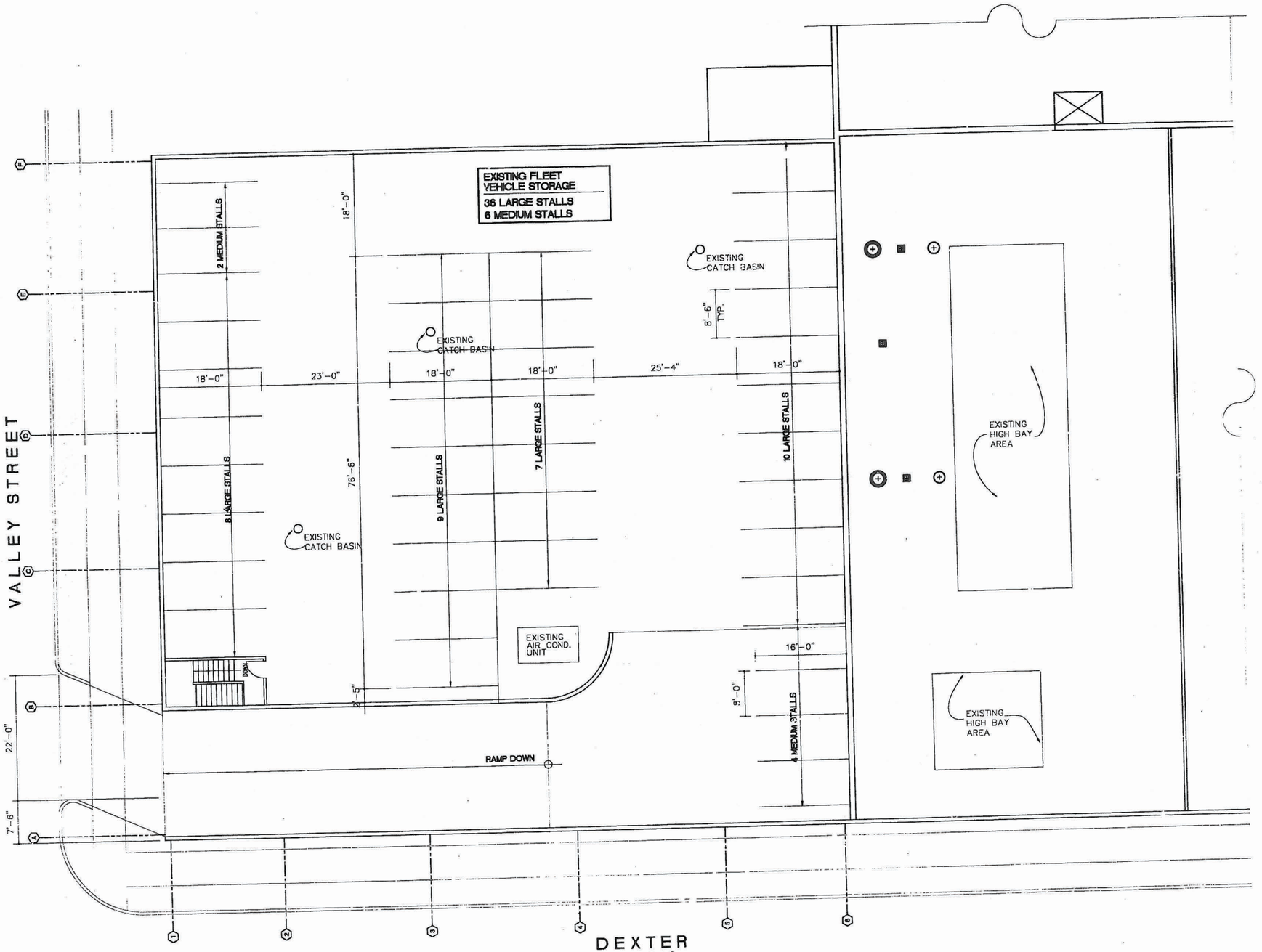
No.	Date	Rev.
1	1-05-98	

TENNANT IMPROVEMENT WORK
FOR MERLINO ITALIAN BAKING COMPANY

771 VALLEY STREET
SEATTLE, WA 98109

BASEMENT FLOOR PLAN

Sheet No. 2.0
Project No. 9736
Date: 12-03-97



EXISTING ROOF PARKING PLAN (FOR REFERENCE ONLY)
NO WORK TO THIS LEVEL

SCALE: 1/8"=1'-0"

PROJECT NORTH

CHEEMORE/BUCK
architecture
[redacted]
123 LAKE ST SOUTH #123
KIRKLAND, WA 98033
(425)827-1857

PERMIT SET

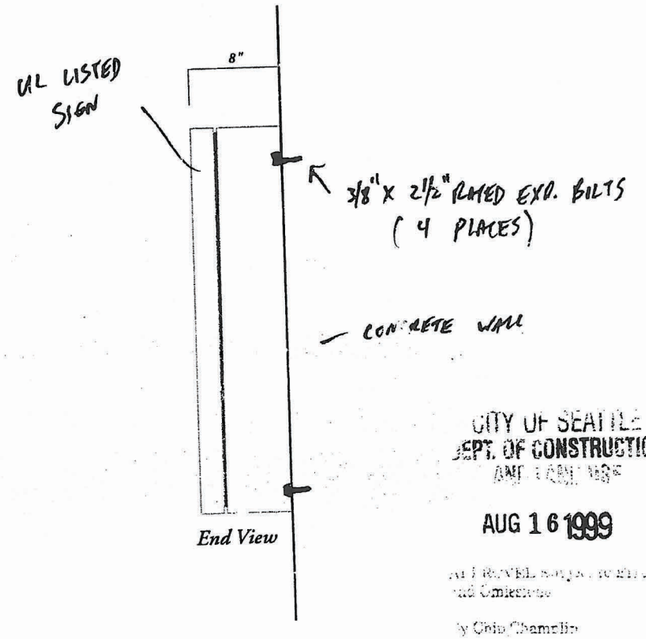
No.	Date	Rev.

TENNANT IMPROVEMENT WORK
FOR MERLINO ITALIAN BAKING COMPANY
771 VALLEY STREET
SEATTLE, WA 98109

ROOF PARKING PLAN

Sheet No. 3.1
Project No. 9736
Date: 12-03-97

Face View



End View

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
AUG 16 1999

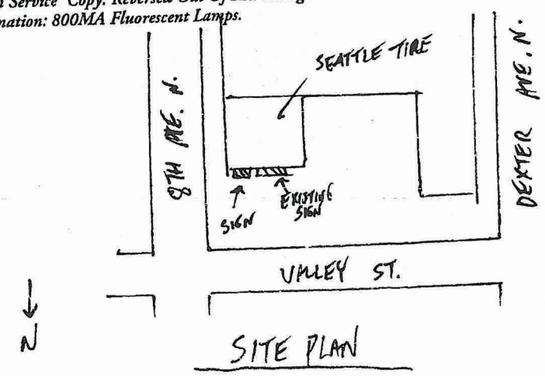
Building Elevation Showing Placement Of Display

One Single Face Illuminated Display

990816-071

Specifications:

Manufacture And Install One New Single Face Illuminated Display.
Cabinet: Fabricated Aluminum Extrusion Painted Satin White.
Face: White Acrylic.
SAFECO Logo: Painted PMS Red 193.
"SAFECO" Copy & "®": Black Vinyl (220-12).
Lower Background: Painted PMS 193 Red.
"Claim Service" Copy: Reversed Out Of Red Background To White.
Illumination: 800MA Fluorescent Lamps.



National Sign

1255 Westlake Avenue North
Seattle, WA
206 282 0700
Fax 206 285 3091

This Is An Original Unpublished Drawing, Created By The National Sign Corporation. It Is Submitted For Your Personal Use In Connection With A Project Being Planned For You By National Sign Corporation. It Is Nos To Be Shown To Anyone Outside Your Organization, Or To Be Used, Reproduced, Copied Or Exhibited In Any Fashion.

Client
SAFECO

Jobsite
771 Valley St.
Seattle, WA

Representative
Marie Wan

Design No.
99-337

Designer
Chris Palmen

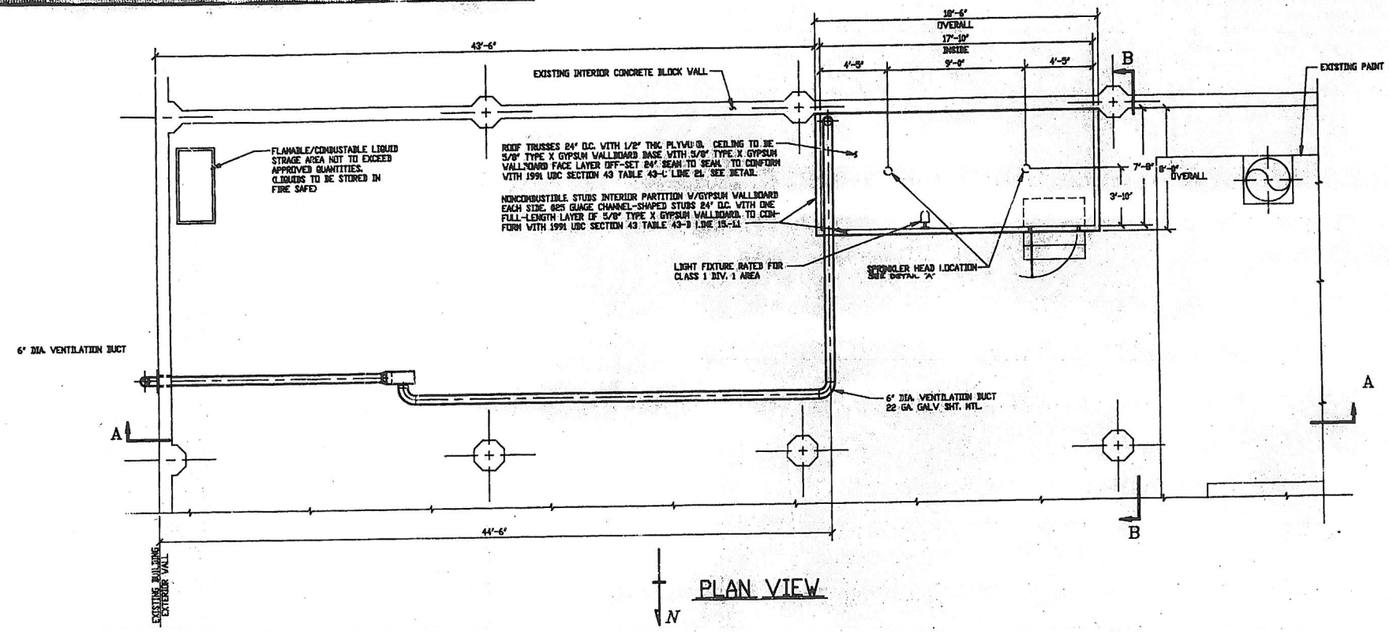
Revised

Scale
1"=1'-0"

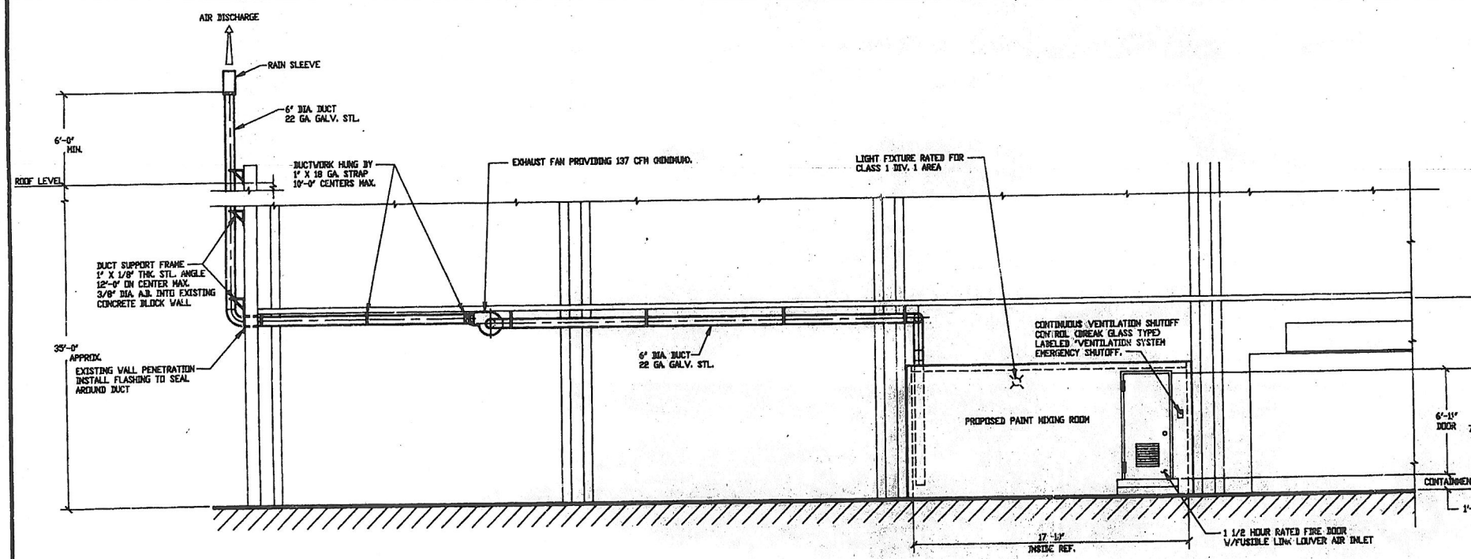
Date 7/14/99

Sheet No. 1 *of* 1

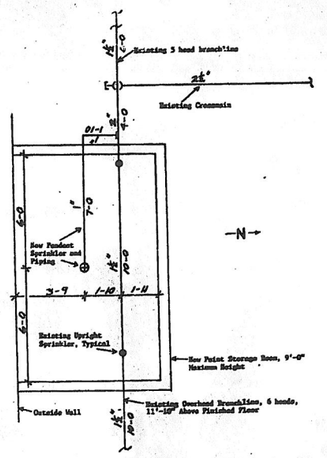
NOTICE THIS DRAWING IS PROPERTY OF BARNES INDUSTRIAL SYSTEMS, CONTAINS PROPRIETARY INFORMATION AND MUST BE RETURNED UPON REQUEST. DO NOT CIRCULATE, REPRODUCE OR DIVULGE TO OTHER PARTIES WITHOUT WRITTEN CONSENT OF BARNES INDUSTRIAL SYSTEMS.



PLAN VIEW



ELEVATION A-A

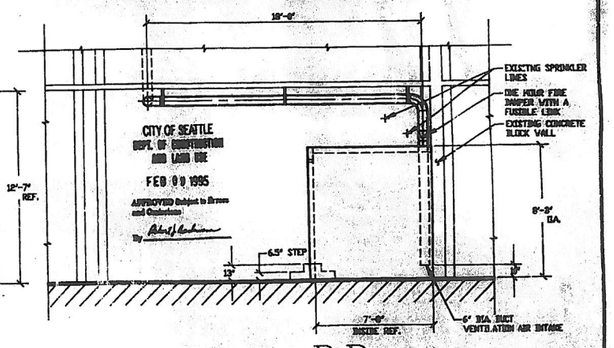


DETAIL "A"
NO SCALE

NOTES:
1) ALL MIXING ROOM WALLS CONSTRUCTED OF 4" THK. SOLID CONCRETE BLOCK AND PROVIDE 1 HOUR SEPERATION MINIMUM.
2) MIXING ROOM ROOF IS CONSTRUCTED IN ACCORDANCE WITH 1991 UBC SECTION 43 TABLE 43-C LINE 21. ROOF WILL PROVIDE A 1 HOUR SEPERATION MINIMUM.
3) PAINT MIXING ROOM RATED GROUP H-2 OCCUPANCY. INTERNAL DIMENSIONS ARE 17'-10½" X 7'-6½" X 8'-6". FLOOR SPACE IS 137 SQ. FT., VOLUME IS 1,165 CU. FT.
4) ALL AREA SURROUNDING PAINT MIXING ROOM RATED GROUP B OCCUPANCY.
5) PAINT MIXING ROOM TO STORE 30 GAL. OF CLASS I-C LIQUID IN 5 GAL. CANS AND 15 GAL. OF CLASS III-B LIQUID STORED IN QUART CANS. PER NFPA 30, 1990 TABLE 3-4-5.2, CLASS I-C LIQUIDS REQUIRE A .3 G.P.M. /SQ. FT. SPRINKLER DENSITY.
6) A 12" CURB IS PROVIDED IN THE PAINT MIXING ROOM TO ENSURE CONTAINMENT FOR 2 SPRINKLER HEADS.
.3 G.P.M. X 137 SQ. FT. = 42 G.P.M.
42 G.P.M. X 20 MINUTES = 840 GAL.
840 GAL. + 5 GAL. LARGEST CONTAINER = 845 GAL.
845 GAL. / 7.47 GAL. PER CUB. FT. = 113 CU. FT.
113 CU. FT. / 137 SQ. FT. = 10" CONTAINMENT HEIGHT NEED
7) 1 EA. EXPLOSION PROOF LIGHT FIXTURE IS PROVIDED WITH ON/OFF SWITCH MOUNTED OUTSIDE 3'-0" MIN. FROM DOOR.
8) MAN DOOR IS SELF CLOSING AND RATED FOR 1 1/2 HOUR FIRE RESISTANCE AND SHALL HAVE A LOUVERED INLET DAMPER WITH FUSIBLE LINK. A "NO SMOKING OR WELDING" SIGN SHALL BE MOUNTED ON THE OUTSIDE OF DOOR.
9) EXHAUST FAN WILL BE INTERLOCKED TO BE "ON" CONTINUOUSLY WHEN INTERIOR LIGHT IS ON. FAN SHALL PROVIDE 137 CFM MINIMUM (1 CFM PER 1SQ. FT. OF MIXING ROOM).
10) 1 EA. CLASS 4A 3C FIRE EXTINGUISHER TO BE MOUNTED NEAR DOOR
11) (2) FIRE SPRINKLER HEADS WILL BE INSTALLED INSIDE OF MIXING ROOM. SPRINKLER LINES WILL BE EXTRA HAZARD PIPE SCHEDULE AND SHALL TIE INTO AN EXISTING OVERHEAD SPRINKLER SERVICE.
12) MIXING/DISPENSING ROOMS SHALL BE PROTECTED BY APPROVED SPRINKLERS CAPABLE OF PRODUCING AN EXTRA HAZARD, GROUP II DENSITY.

NOTE: CLASS I & CLASS II LIQUIDS SHALL BE DISPENSED BY APPROVED PUMPS DRAWING SUCTION FROM THE TOP OF THE CONTAINERS. CLASS III LIQUIDS MAY BE DISPENSED BY GRAVITY THROUGH LISTED SELF CLOSING VALVE.

RECEIVED
FEB 09 1995
Dept. of Construction & Land Use

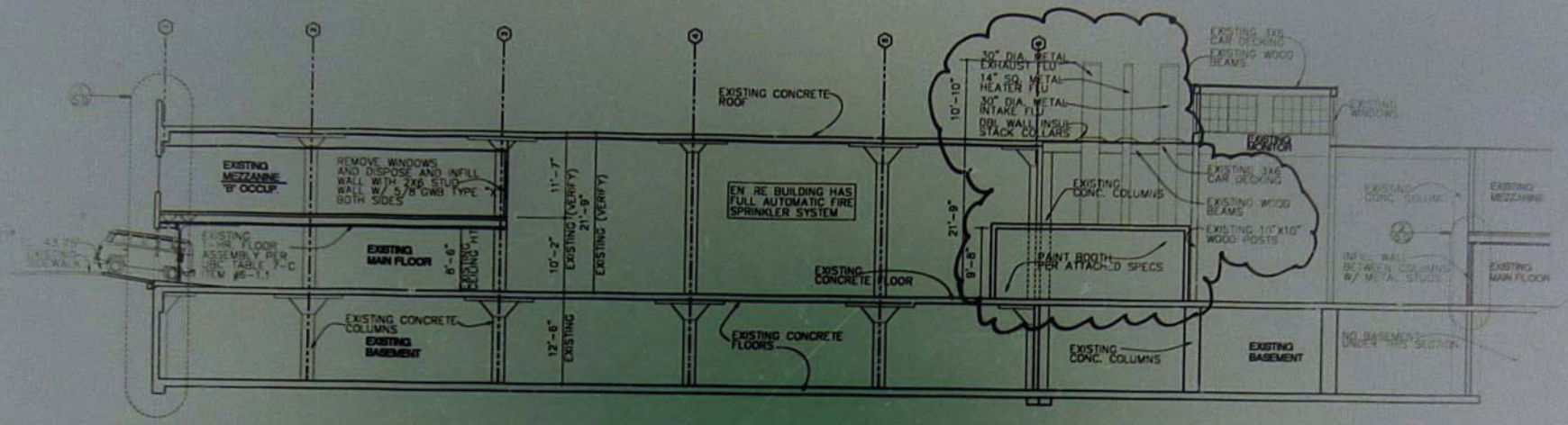


ELEVATION B-B

	REVISIONS	DATE	BY	CHK
1	REVISED PER SEATTLE FIRE MARSHAL	1/6/95	TNT	CAD

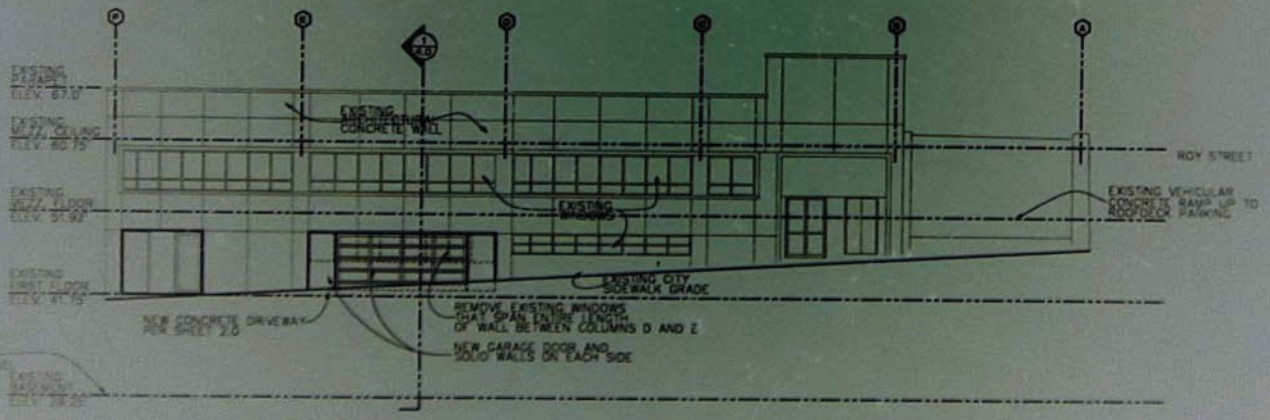
BARNES INDUSTRIAL SYSTEMS INC.
P.O. BOX
BOSTON, MASS. 02205

TITLE: PAINT MIXING ROOM DETAILS
CUSTOMER: AUTOMOTIVE
DRAWN BY: TNT | SCALE: 1/8" = 1'-0" | SHEET: 1 OF 2 | DRAWING NO.: 0320 CADWORK\BARNES\PAINT
DATE: 11/7/94



A BUILDING SECTION

1/8" = 1'-0"



NORTH EXTERIOR ELEVATION

1/8" = 1'-0"

DOOR SCHEDULE

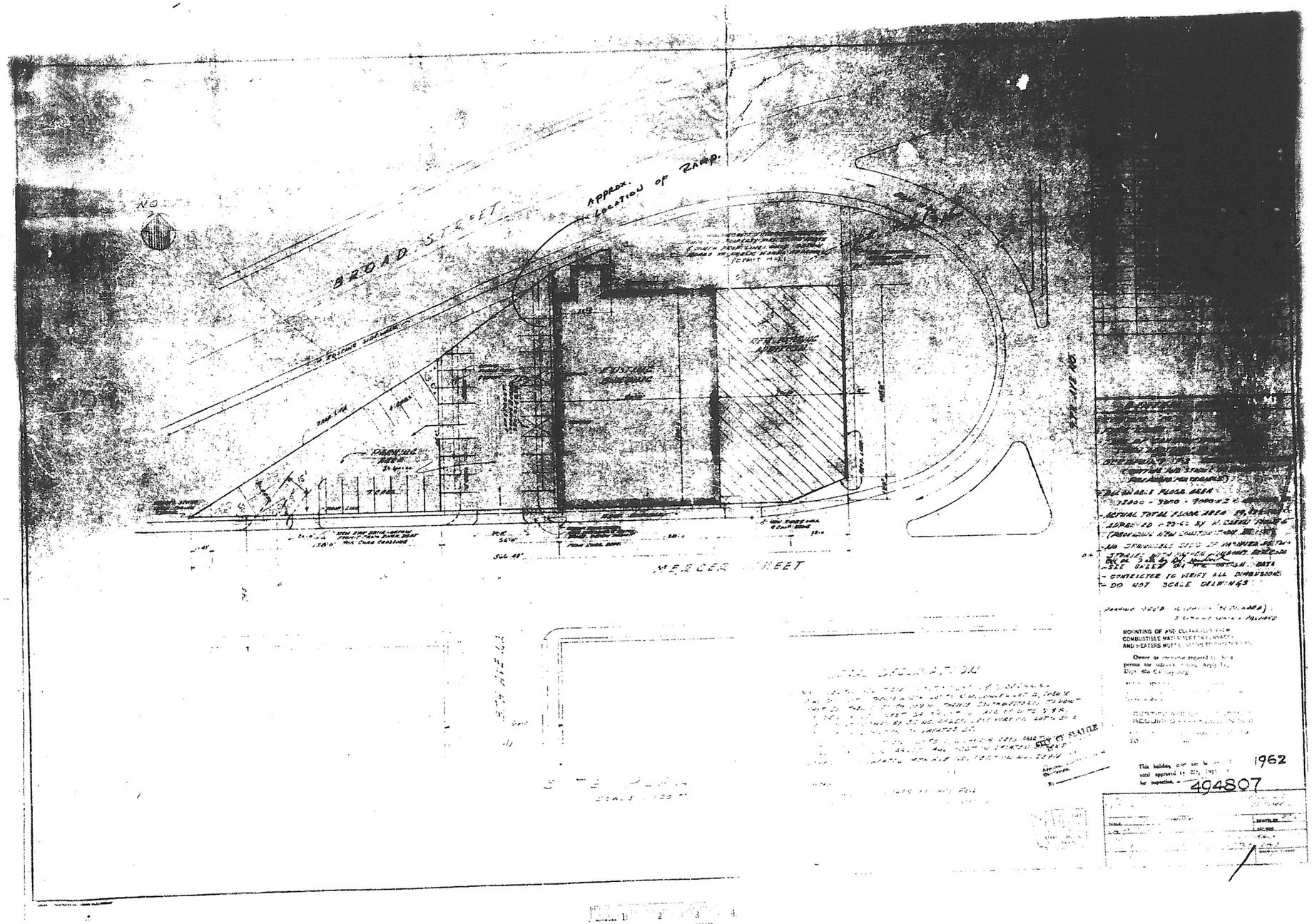
DOOR #	OPENING WIDTH	OPENING HEIGHT	THICK	MTL.	FRAME	TYPE	LABEL	GLASS	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS THRESH	REMARKS

LEGEND

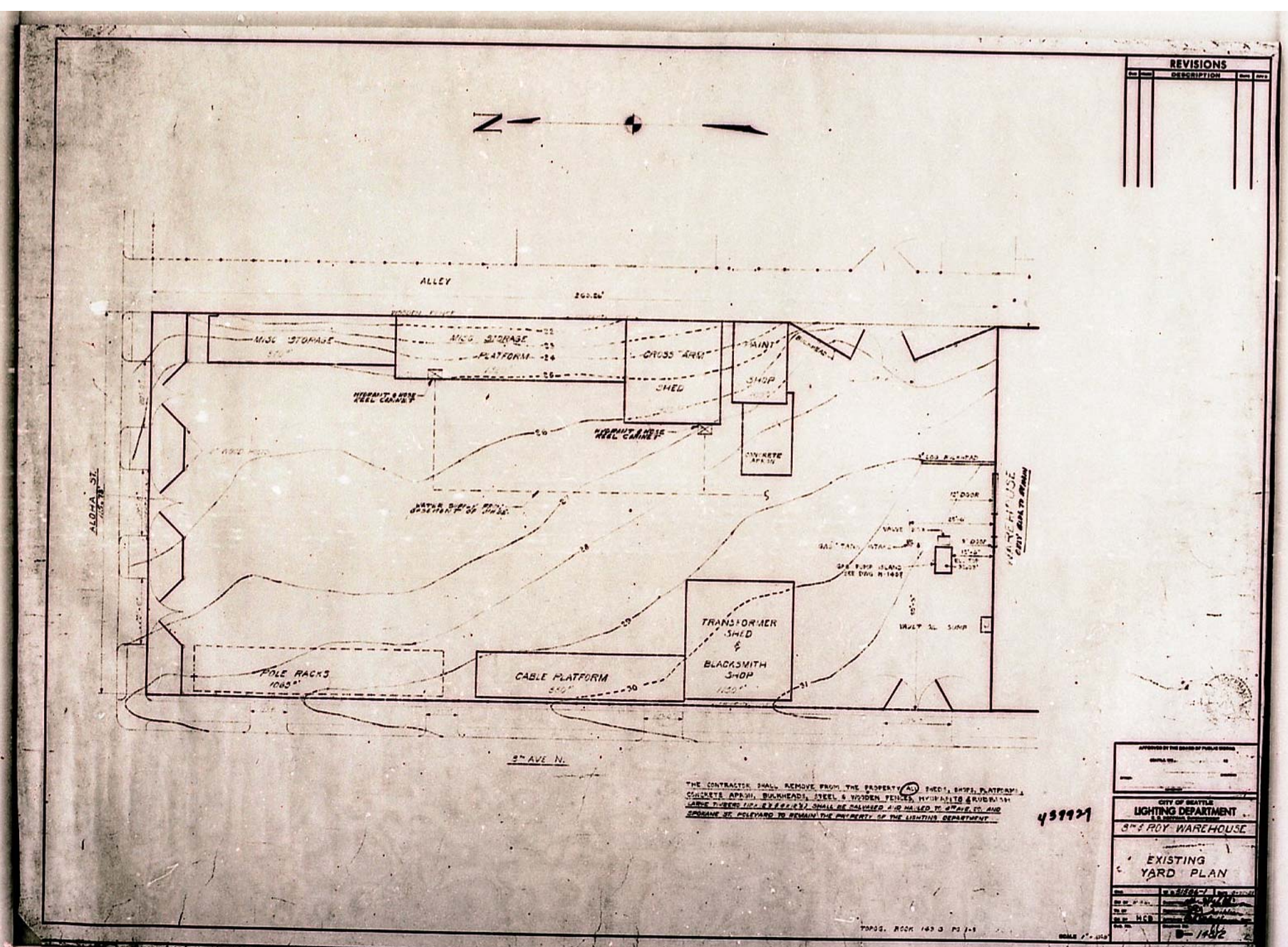
DOOR TYPES

RE-LITE TYPES

South-Adjoining Property


BROAD STREET
APPROX. LOCATION OF RAMP
NO.
MERCER STREET
6TH AVE. N.
SITE PLAN
SCALE 1/32"
CITY OF SEATTLE
1962
494807

East-Adjoining Properties
800 Roy Street Parcel


REVISIONS
DESCRIPTION
ALLEY
MISC STORAGE
MISC STORAGE
PLATFORM
CROSS ARM
SHED
PAINT
SHOP
CONCRETE APRON
WAREHOUSE
CITY BOAT TO REMAIN
ALOHA ST.
TRANSFORMER
SHED
&
BLACKSMITH
SHOP
POLE RACKS
CABLE PLATFORM
9TH AVE N.
THE CONTRACTOR SHALL REMOVE FROM THE PROPERTY ALL SHEDS, SHOPS, PLATFORMS, CONCRETE APRON, BULKHEADS, STEEL & WOODEN FENCES, HYDRANTS & RUBBISH
LARGE TIMBERS (12" x 12" & 6" x 6") SHALL BE SALVAGED AND HAULED TO 9TH AVE. N. AND SPOKANE ST. POLEYARD TO REMAIN THE PROPERTY OF THE LIGHTING DEPARTMENT
459929
CITY OF SEATTLE
LIGHTING DEPARTMENT
9TH & ROY WAREHOUSE
EXISTING
YARD PLAN
HCB
1482
TOPOG. BOOK 163 3 PG 1-8
30x

APPROX. QUANTITIES

COURT YARD CUT	595	CU. YDS.
FILL IN YARD	663	" "
DIFF.	232	" "

WALL NO. 1	4400	LBS.	STEEL	—	59	CU. YDS.	CONCRETE — CLASS	B.S
WALL NO. 2	6600	"	"		103	" "	"	"
WALL NO. 3	305	"	"		7	" "	"	"
FENCE CURB	210	"	"		5	" "	"	"
76' x 40' PAVING					67	" "	"	S
4" PAVING - PARKING STRIP					22	" "	"	S
TOTAL	11820	LBS.			251	" "	"	

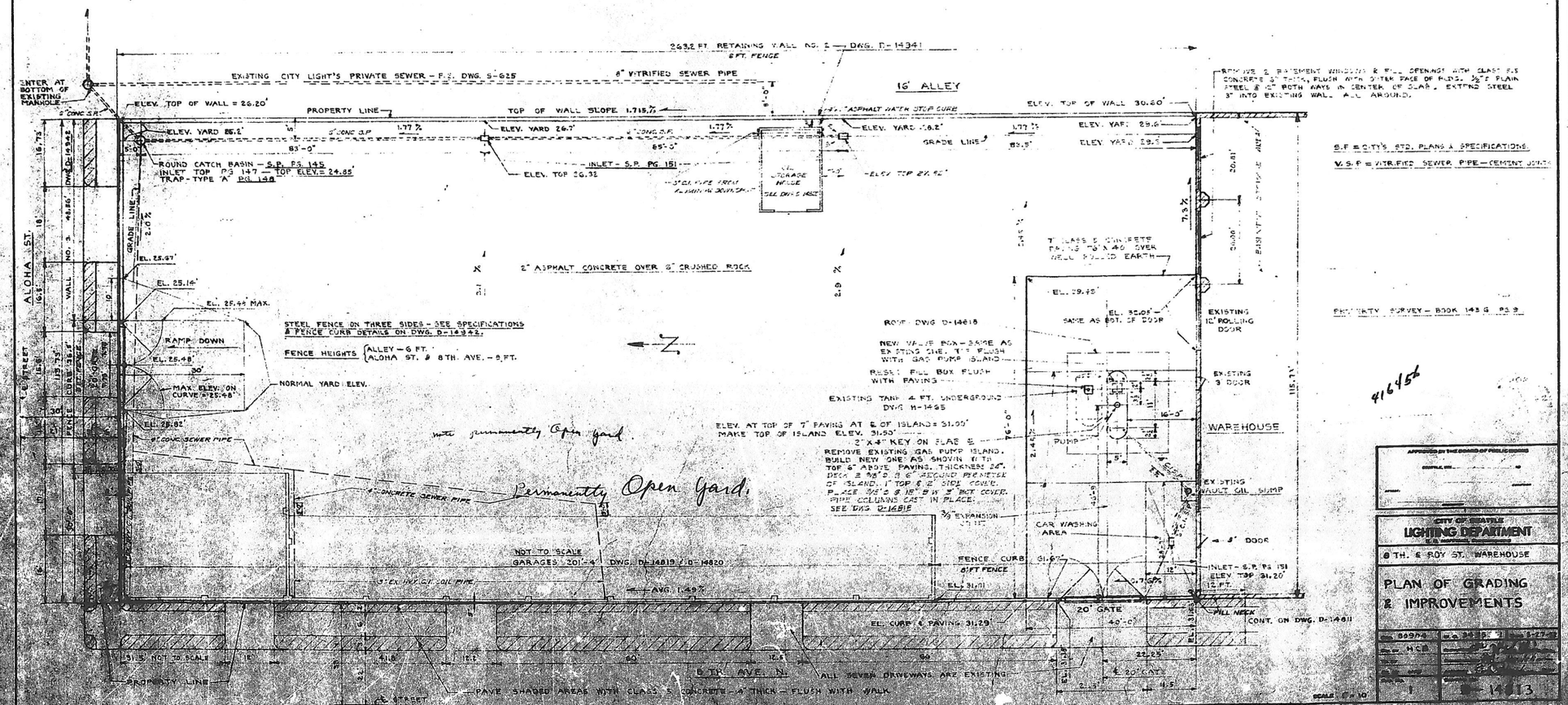
CRUSHED ROCK 800 CU. YDS.
ASPHALT CONCRETE 170 CU. YDS.

REVISIONS

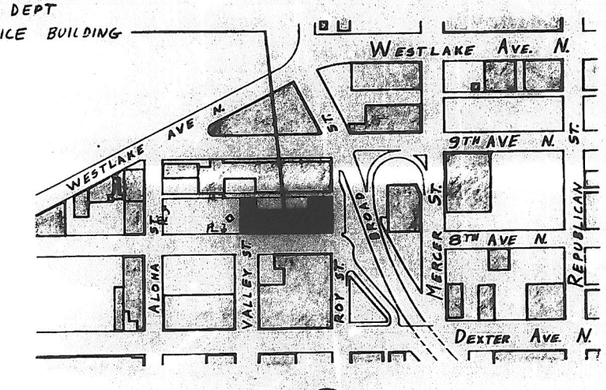
Dwn	Chkd	DESCRIPTION	Date	Appvd
1		DWG D-14825 ADDED	6-62	RWF

DRAWING INDEX

D-4411 COURTYARD GRADING & PAVING PLAN
D-14811 EXISTING YARD PLAN
D-14813 PLAN OF YARD GRADING — WALLS NO 2&3 — IMPROVEMENTS
D-14842 RETAINING WALL NO. 1 DETAILS
D-14844 RETAINING WALL NO. 2 DETAILS
D-14843 RETAINING WALL NOS. 2 — FENCE CURB
D-4815 ROOF OVER GAS PUMP ISLAND
D-14818 STORAGE GARAGE
M-14817 EXISTING GAS ISLAND INSTALLATION
D-14820 OIL STORAGE HOUSE
D-14825 ELECTRICAL LAYOUT



802 ROY ST
PARK DEPT
SERVICE BUILDING



SCALE: 1"=200'

SITE PLAN

CODES:
SEATTLE ZONING
1973 U. B. C.
UNIFORM FIRE CODE, SECTION 14

ZONING:
M- MANUFACTURING

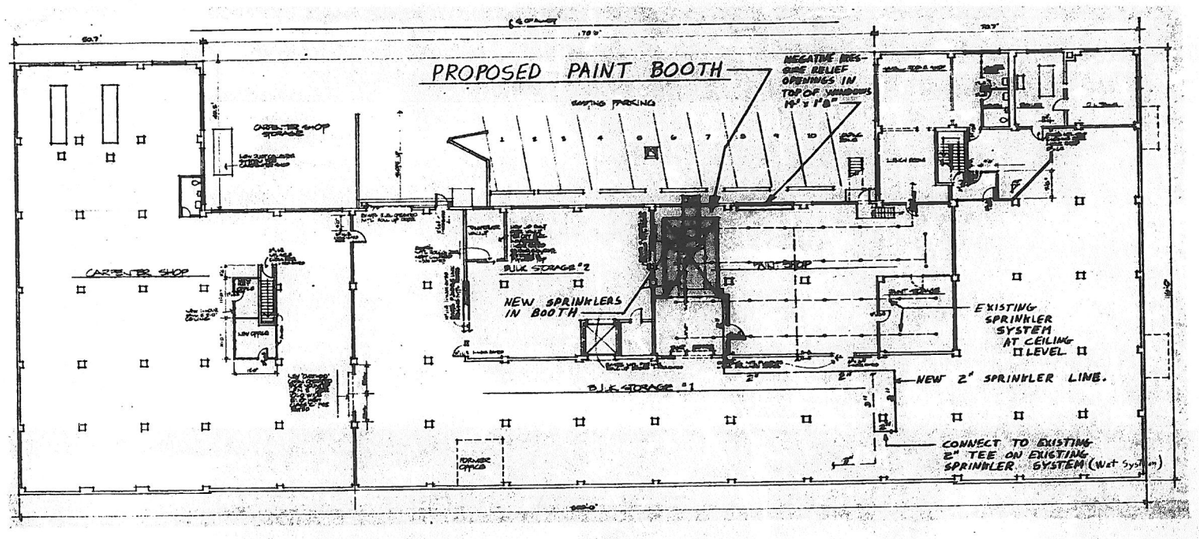
FIRE ZONE 3

CONST. TYPE
III- HEAVY TIMBER, 1 HOUR WALLS

OCCUPANCY
E-2 FOR PAINT SHOP BEING
APPLIED FOR UNDER SEPERATE PERMIT

SQUARE FEET
3200 FT²

VENTILATION- MINIMUM 100 FPM IN BOOTH



SCALE: 1" = 16'

FIRST FLOOR PLAN

LEGAL DESCRIPTION

All of Block Eight (8) of Eden Addition to the City of Seattle according to plat thereof recorded in volume one (1) of Plats, page 69, records of King County, Washington, and

That portion of Lots One (1), Two (2), Three (3), and Four (4), in Block Eighty (80) lying West of the alley deeded to the City of Seattle, and that portion of Lots One (1), Two (2), Three (3), Four (4) and Five (5) in Block Eighty-one (81) lying East of the alley deeded to the City of Seattle in Lake Union Shore Lands as per recorded plat thereof.

Also that portion of the vacated street adjoining said lots described as follows:

Beginning at the most Westerly corner of Lot One (1) of Block Eight-one (81) of said Lake Union Shore Lands; thence Northeasterly along the Southeasterly line of said lot to the most Easterly corner thereof; thence Northeasterly along the Southeasterly line of said Block Eighty-one (81) to the most Easterly corner of said Block; thence East 16ft to the Northwesterly line of said Block Eighty-one (81); thence Southwesterly along said Northwesterly line to the Southeasterly line of said Block Eight (8) of Eden Addition; thence Southwesterly along said line to the East line of Eighth Avenue North; thence Southerly along said East line to the place of beginning.

Being all the land lying South of the South line of Mercer Street, North of the North line of Roy Street, East of the East line of Eighth Avenue North, and West of the West line of the alley as deeded to the City of Seattle under auditor's file no. 1200041, records of King County, Washington.

ADDRESS: 802 ROY ST.

CITY OF SEATTLE
DEPT. OF BUILDINGS
Approved Subject to Zones and Ordinances
DEC 9 '77
By [signature]

APPROVED:
[signature] 16 Dec 1977

APPROVED BY BOARD OF PUBLIC WORKS
DATED: ____ 19__
ATTEST: ____
SECRETARY

IRVING S. RODLEY
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

CITY OF SEATTLE
DEPARTMENT OF PARKS AND RECREATION
8TH & ROY BUILDING
SPRAY PAINT BOOTH
SITE & FLOOR PLAN
DRAWN BY GAM
DATE DEC 9 1976
SCALE AS SHOWN

Approved, subject to all applicable City of Seattle codes, requirements and ordinances
Date 12/21/77
Chief of Fire Department
By [signature] Date 12/20/77

4 of 5

[redacted]

PLAN

Common Brick

Concrete Wall

Stepped 9" each course

Damper see detail

3" T-iron brackets

Common brick

Door

12"x24"x2'6"

Commercial fire brick lining

4'6"

2'3"

Basement Floor

6'6"

7'6"

Reinforce ⅝" ø 12" c.c. both ways

Rod 6" c.c. both ways.

SECTIONAL ELEVATION

3" T-iron brackets see detail

Precise stop to serve control to the arm of indicator

Weighted counter balance to hold sheave in open position

⅝" Guide & Jaster Rod. Flat surface on rod to prevent turning of rods

SEAT ON THIRD LANDING

Reinforced 3" concrete walk with ⅝" ø 18" c.c. both ways & gear in the bottom slab

SCALE ELEVATION

6" Concrete wing wall

NINTH AVE. N.

ROY ST.

ALLEY

Incinerator

Pedestrian door

SERVICE BUILDING

EIGHT AVE. N.

LOCATION PLAN

Scale 1"=40'

SPECIFICATION

N 75'-8th N.

N 25781

CITY OF SEATTLE

INCINERATOR SERVICE BUILDING ROY

PUGET SOUND POWER & LIGHT COMPANY

F1018

TOOL STORAGE

TOILET

COURT YARD

Sketch Layout for vent ducts prior to installation (if any)

ENTRANCE

WATER HEATER TESTING ROOM

OFFICE

OFFICE

WELDING ROOM

TRANSFORMER

TESTING ETC.

Work Shop

GENERAL

BOIL-ER RM.

COAL RM.

Concrete 5" thick

CAR ~~STORAGE~~

This area may not require this fire limit

STORAGE

ELEVATOR

6'x7' open

Fire Door - Label Underwriters Laboratories

Get Sprinkler Approved by Fire Marshal before installation

Fire doors to be by Underwriters Laboratories

BASEMENT FLOOR PLAN

Puget Sound Power & Light Co. Service Bldg. 8th & Roy

En: 7381-5

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

16X

EXISTING MANHOLE

ALLEY

30'-0"

EXISTING 6" CONCRETE S.T.

EXISTING CURB MAP

EXISTING SEWER

EXISTING A.C. ST.

ENTRANCE

MISC. STORAGE

EXISTING 18"

INTERCEPTOR

TRANS. VAULT

PARKING

MEN'S ROOM

TRANS. VAULT

GENERAL STORAGE

WATER USE

UNDERGROUND

WAREHOUSE STORAGE

STORAGE

8TH AVENUE

N

804 Bay
470569

MARK	DRAWN BY	CK'D BY	DESCRIPTION OF REVISIONS	APP'D

CITY OF SEATTLE
DEPARTMENT OF LIGHTING
PAUL J. RAMSEL, SUPERINTENDENT

8TH & BOY WAREHOUSE

BASEMENT FLOOR PLAN

ENDORSEMENTS	
ENGINEER	DATE
DRAWN	10-7-54
CK	

APPROVED FOR DEPARTMENT OF LIGHTING
DATE
DATE

APPROVED BY SEATTLE BOARD OF PUBLIC WORKS
CHAIRMAN
DATE
SEC'Y. SECRETARY

TRACE NO.
W. O. NO.
SCALE: 1/8" = 1'-0"

DRAWING NO. D-20391

PERMISSION is hereby authorized to the undersigned [illegible] Parks and Recreation ("Permittee") by way of [illegible] the following described premises owned by the [illegible]

All of Block [illegible] in the plat of Seattle Tideland, according to the plat thereof recorded in Volume One (1) of Plats, Page Fifty, records of King County, Washington; and

[illegible] and vacated by Ordinance [illegible] of Seattle and that portion of the vacated alley adjoining said Block [illegible] which upon said vacation attached thereto by operation of law, EXCEPT the following described parcel:

Beginning at the [illegible] corner of said Block [illegible]; thence [illegible] feet; thence [illegible] feet; thence [illegible] feet; thence [illegible] feet to the point of beginning;

Also that portion of the vacated alley adjoining said Block [illegible] described as follows:

Beginning at the [illegible] corner of said Block [illegible]; thence [illegible] feet; thence [illegible] feet; thence [illegible] feet; thence [illegible] feet to the point of beginning;

[illegible] of Eden Addition [illegible] 8th Avenue [illegible] to the East line of [illegible] 8th Avenue [illegible] feet to the point of beginning.

Subject to all [illegible] Street, Dexter [illegible] to the [illegible] of the [illegible] of Eden Addition [illegible] under auditor's [illegible] Records.

Authorized persons [illegible]

GENERAL NOTES
LEGAL DESCRIPTION
SEE SEPARATE SHEET - 5½" +
CODES - SEATTLE ZONING & UBC '73
ZONING
CLASS
NOT ALLOWED
M MANUFACTURING
LIMITED BY GROSS FLOOR AREA & CONSTRUCTION TYPE: GROSS FLOOR AREA 2 ½ TIMES LOT AREA
LOT AREA
GROSS FLOOR AREA
ALLOWED
BUILDING
NOT ON
LOT LINE
TYPE
SMALL BUILDING
NONE
BUILDING
OCCUPANCY
CONSTRUCTION TYPE
ADDITIONAL
B
TYPE B CONSTRUCTION, 2 HOUR RATED WALLS, NOT SPRINKLERED

ZONE	USE DESCRIPTION	GROSS AREA OF LOT (sq. ft.)	BUILDING COVERAGE		FLOOR AREA RATIO		# STORIES	HEIGHT OF BUILDING	
			ALLOWED	PROVIDED	ALLOWED	PROVIDED		ALLOWED	PROVIDED
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	5427	2½	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2374		[illegible]		[illegible]	[illegible]		
	[illegible]	1350							
	[illegible]	5781	5781				[illegible]	[illegible]	[illegible]
	[illegible]	7128	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1350				[illegible]			
[illegible]	[illegible]								
[illegible]	[illegible]	5403	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	5123		[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
	[illegible]	1854		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	1377							
[illegible]	[illegible]	1026							

SITE PLAN
1" = 20'-0"

LEGEND
BUILDING OUTLINE
NEW CONCRETE - LANDSCAPE
(HE) SEWER LINE BY OTHERS
SEATTLE BOUNDARY

APPROVED:
RECOMMENDED BY: [illegible] DATE
PARK ENGINEER DATE
SUPT. OF PARKS & RECREATION DATE
APPROVED BY BOARD OF PARKS & RECREATION
DATED: [illegible] 19
ATTEST:
CHAIRMAN
EXECUTIVE SECRETARY

NO.	REVISION	DATE
3		
2		
1	[illegible]	4-77

CITY OF SEATTLE
DEPARTMENT OF PARKS AND RECREATION
100 DEXTER AVE. NO.
SOUTH PARK BUILDING
ADDITION
SITE PLAN - SELECTIVE DEMOLITION

DRAWN BY
DATE 2-77
SCALE: 1"=20'
CHECKED
APPROVED
CONT. NO.

SEATTLE CITY LIMITS

CARPENTER SHOP
STORAGE

EXISTING FARM

CARPENTER SHOP

ELECTRICAL WORK UNDER SEPARATE PERMIT APPLICATION

NEW OFFICE

BLK STORAGE #2

BLK STORAGE #1

PAINT SHOP

STORAGE

FIRST FLOOR
1/8" = 1'-0"

NO.	REVISION	DATE
1	3/26 PT CHANGES	6-27
2		
3		

APPROVED:
RECOMMENDED BY: _____ DATE
PARK SUPERINTENDENT: _____ DATE
SUPT. OF PARKS & REC. _____ DATE
APPROVED BY BOARD OF PUBLIC WORKS
DATED: _____ 19__
ATTEST: _____ CHAIRMAN
EXECUTIVE SECRETARY

CITY OF SEATTLE
DEPARTMENT OF PARKS AND RECREATION
100 DEXTER AVE. NO. (625-4511)

BOZ RAY PARK BLDGS
ELECTRICAL SERV.
FIRST FLOOR PLAN

DRAWN BY: JAM
DATE: 10-7-74
SCALE: 1/8" = 1'-0"
CHECKED
APPROVED
CONT. NO.
SHEET 5/12

GARAGE

TOILET

LOCKER ROOM

CURTAIN SHOP

HOSE RACK

BLACKSMITH SHOP

OFFICE

STORE RM.

IN3S DIVISION OFFICE

STORE ROOM

ELEVATOR

TOOL ROOMS

TRUCK SPACE

EIGHTH AVENUE

STOREROOM O

TOILET

VAULT

CLOS.

LINEMEN'S R

LINEMEN'S TOILET ROOM

LINEMEN'S LOCKER ROOM

ENTRANCE HALL

FOREMEN'S OFFICE

PRIVATE OFFICE

PRIVATE OFFICE

ROO

25721

FIRST FLOOR PLAN

SCALE-⅛"-1'-0"

PLUMBING & HEATING

UTILITIES BUILDING

FOR

PUGET SOUND POWER & LIGHT CO.

N.E. CORNER 6TH. AVENUE & ROY ST.

SEATTLE WASHINGTON

DR. GMCE CK. CHS

CHECKED -AP

DATE 6-2-26

APPROVED

REVISIONS

JOB NO.

SHEET NO.

JOHN GRAHAM, ARCHIT

KEY OF MATERIALS
Conc. Brick Tile

Mark	Size	Frame	Description
A	3'-0" x 7'-0"	3"x3"x5/16" Angle Channel Frame	Corrugated Iron
B	3'-0" x 7'-0"	4"x4"x5/16"	Corrugated Iron Rolling Steel Door - Automatic Closing
C	2'-10" x 7'-10"	Wood Frame, Metal Covered on each side	Corr. Iron - Door to be automatic closing in case of fire
D	2'-10" x 6'-6"		Corr. Iron - Door to be automatic closing in case of fire other than 6 June 1926 pass door
E	3'-0" x 7'-0"	Metal Covered	Metal Covered - Clear wire glass - see elev.
F	4'-0" x 8'-6"	4"x4"x5/16" Channel Frame	Corrugated Iron

A
B
ALLEY
Property Line
Wire Glass
Cinder Drive
Slope
Grade + 30.5 (Street Paving)
Elev. of Floor +28.75 Entire Basement - Unfinished
CAR STORAGE
TRANSFORMER TESTING & STORAGE
WELLWOOD MACHINE CO.
GENERAL STORAGE
EIGHTH AVE
Property Line
Parking Grade
Paving Grade
Sump
Drain
Tile Floor
Terra Cotta Coping
Iron Railing
Iron Ladder
Iron Door
Steel Sash
Steel Door & Frame
Wire Glass
Concrete Floor
Concrete Wall
Brick Wall
Tile Wall
Iron Column
Steel Column
Concrete Column
Brick Column
Tile Column
Steel Beam
Concrete Beam
Brick Beam
Tile Beam
Steel Girder
Concrete Girder
Brick Girder
Tile Girder
Steel Lintel
Concrete Lintel
Brick Lintel
Tile Lintel
Steel Joist
Concrete Joist
Brick Joist
Tile Joist
Steel Truss
Concrete Truss
Brick Truss
Tile Truss
Steel Purlin
Concrete Purlin
Brick Purlin
Tile Purlin
Steel Rafter
Concrete Rafter
Brick Rafter
Tile Rafter
Steel Stringer
Concrete Stringer
Brick Stringer
Tile Stringer
Steel Header
Concrete Header
Brick Header
Tile Header
Steel Sill
Concrete Sill
Brick Sill
Tile Sill
Steel Threshold
Concrete Threshold
Brick Threshold
Tile Threshold
Steel Step
Concrete Step
Brick Step
Tile Step
Steel Ramp
Concrete Ramp
Brick Ramp
Tile Ramp
Steel Platform
Concrete Platform
Brick Platform
Tile Platform
Steel Deck
Concrete Deck
Brick Deck
Tile Deck
Steel Roof
Concrete Roof
Brick Roof
Tile Roof
Steel Floor
Concrete Floor
Brick Floor
Tile Floor
Steel Wall
Concrete Wall
Brick Wall
Tile Wall
Steel Partition
Concrete Partition
Brick Partition
Tile Partition
Steel Ceiling
Concrete Ceiling
Brick Ceiling
Tile Ceiling
Steel Soffit
Concrete Soffit
Brick Soffit
Tile Soffit
Steel Fascia
Concrete Fascia
Brick Fascia
Tile Fascia
Steel Gutter
Concrete Gutter
Brick Gutter
Tile Gutter
Steel Downspout
Concrete Downspout
Brick Downspout
Tile Downspout
Steel Flashing
Concrete Flashing
Brick Flashing
Tile Flashing
Steel Counterflashing
Concrete Counterflashing
Brick Counterflashing
Tile Counterflashing
Steel Coping
Concrete Coping
Brick Coping
Tile Coping
Steel Cornice
Concrete Cornice
Brick Cornice
Tile Cornice
Steel Parapet
Concrete Parapet
Brick Parapet
Tile Parapet
Steel Chimney
Concrete Chimney
Brick Chimney
Tile Chimney
Steel Flue
Concrete Flue
Brick Flue
Tile Flue
Steel Vent
Concrete Vent
Brick Vent
Tile Vent
Steel Louver
Concrete Louver
Brick Louver
Tile Louver
Steel Screen
Concrete Screen
Brick Screen
Tile Screen
Steel Grille
Concrete Grille
Brick Grille
Tile Grille
Steel Register
Concrete Register
Brick Register
Tile Register
Steel Diffuser
Concrete Diffuser
Brick Diffuser
Tile Diffuser
Steel Duct
Concrete Duct
Brick Duct
Tile Duct
Steel Pipe
Concrete Pipe
Brick Pipe
Tile Pipe
Steel Conduit
Concrete Conduit
Brick Conduit
Tile Conduit
Steel Wire
Concrete Wire
Brick Wire
Tile Wire
Steel Cable
Concrete Cable
Brick Cable
Tile Cable
Steel Rope
Concrete Rope
Brick Rope
Tile Rope
Steel Chain
Concrete Chain
Brick Chain
Tile Chain
Steel Hook
Concrete Hook
Brick Hook
Tile Hook
Steel Eye
Concrete Eye
Brick Eye
Tile Eye
Steel Ring
Concrete Ring
Brick Ring
Tile Ring
Steel Bolt
Concrete Bolt
Brick Bolt
Tile Bolt
Steel Nut
Concrete Nut
Brick Nut
Tile Nut
Steel Washer
Concrete Washer
Brick Washer
Tile Washer
Steel Screw
Concrete Screw
Brick Screw
Tile Screw
Steel Nail
Concrete Nail
Brick Nail
Tile Nail
Steel Rivet
Concrete Rivet
Brick Rivet
Tile Rivet
Steel Weld
Concrete Weld
Brick Weld
Tile Weld
Steel Solder
Concrete Solder
Brick Solder
Tile Solder
Steel Braze
Concrete Braze
Brick Braze
Tile Braze
Steel Paint
Concrete Paint
Brick Paint
Tile Paint
Steel Primer
Concrete Primer
Brick Primer
Tile Primer
Steel Finish
Concrete Finish
Brick Finish
Tile Finish
Steel Coating
Concrete Coating
Brick Coating
Tile Coating
Steel Protection
Concrete Protection
Brick Protection
Tile Protection
Steel Insulation
Concrete Insulation
Brick Insulation
Tile Insulation
Steel Waterproofing
Concrete Waterproofing
Brick Waterproofing
Tile Waterproofing
Steel Damproofing
Concrete Damproofing
Brick Damproofing
Tile Damproofing
Steel Vapor Barrier
Concrete Vapor Barrier
Brick Vapor Barrier
Tile Vapor Barrier
Steel Soundproofing
Concrete Soundproofing
Brick Soundproofing
Tile Soundproofing
Steel Fireproofing
Concrete Fireproofing
Brick Fireproofing
Tile Fireproofing
Steel Firestopping
Concrete Firestopping
Brick Firestopping
Tile Firestopping
Steel Caulking
Concrete Caulking
Brick Caulking
Tile Caulking
Steel Sealant
Concrete Sealant
Brick Sealant
Tile Sealant
Steel Gasket
Concrete Gasket
Brick Gasket
Tile Gasket
Steel Weatherstripping
Concrete Weatherstripping
Brick Weatherstripping
Tile Weatherstripping
Steel Hardware
Concrete Hardware
Brick Hardware
Tile Hardware
Steel Lock
Concrete Lock
Brick Lock
Tile Lock
Steel Key
Concrete Key
Brick Key
Tile Key
Steel Latch
Concrete Latch
Brick Latch
Tile Latch
Steel Hinge
Concrete Hinge
Brick Hinge
Tile Hinge
Steel Pivot
Concrete Pivot
Brick Pivot
Tile Pivot
Steel Bearing
Concrete Bearing
Brick Bearing
Tile Bearing
Steel Roller
Concrete Roller
Brick Roller
Tile Roller
Steel Track
Concrete Track
Brick Track
Tile Track
Steel Guide
Concrete Guide
Brick Guide
Tile Guide
Steel Stop
Concrete Stop
Brick Stop
Tile Stop
Steel Bumper
Concrete Bumper
Brick Bumper
Tile Bumper
Steel Buffer
Concrete Buffer
Brick Buffer
Tile Buffer
Steel Spring
Concrete Spring
Brick Spring
Tile Spring
Steel Shock Absorber
Concrete Shock Absorber
Brick Shock Absorber
Tile Shock Absorber
Steel Hydraulic
Concrete Hydraulic
Brick Hydraulic
Tile Hydraulic
Steel Pneumatic
Concrete Pneumatic
Brick Pneumatic
Tile Pneumatic
Steel Electric
Concrete Electric
Brick Electric
Tile Electric
Steel Mechanical
Concrete Mechanical
Brick Mechanical
Tile Mechanical
Steel Manual
Concrete Manual
Brick Manual
Tile Manual
Steel Automatic
Concrete Automatic
Brick Automatic
Tile Automatic
Steel Remote
Concrete Remote
Brick Remote
Tile Remote
Steel Local
Concrete Local
Brick Local
Tile Local
Steel Emergency
Concrete Emergency
Brick Emergency
Tile Emergency
Steel Standby
Concrete Standby
Brick Standby
Tile Standby
Steel Auxiliary
Concrete Auxiliary
Brick Auxiliary
Tile Auxiliary
Steel Primary
Concrete Primary
Brick Primary
Tile Primary
Steel Secondary
Concrete Secondary
Brick Secondary
Tile Secondary
Steel Tertiary
Concrete Tertiary
Brick Tertiary
Tile Tertiary
Steel Quaternary
Concrete Quaternary
Brick Quaternary
Tile Quaternary
Steel Quinary
Concrete Quinary
Brick Quinary
Tile Quinary
Steel Senary
Concrete Senary
Brick Senary
Tile Senary
Steel Septenary
Concrete Septenary
Brick Septenary
Tile Septenary
Steel Octonary
Concrete Octonary
Brick Octonary
Tile Octonary
Steel Nonary
Concrete Nonary
Brick Nonary
Tile Nonary
Steel Denary
Concrete Denary
Brick Denary
Tile Denary
Steel Undenary
Concrete Undenary
Brick Undenary
Tile Undenary
Steel Duodenary
Concrete Duodenary
Brick Duodenary
Tile Duodenary
Steel Tredenary
Concrete Tredenary
Brick Tredenary
Tile Tredenary
Steel Quattuordenary
Concrete Quattuordenary
Brick Quattuordenary
Tile Quattuordenary
Steel Quindenary
Concrete Quindenary
Brick Quindenary
Tile Quindenary
Steel Sexdenary
Concrete Sexdenary
Brick Sexdenary
Tile Sexdenary
Steel Septendenary
Concrete Septendenary
Brick Septendenary
Tile Septendenary
Steel Octodenary
Concrete Octodenary
Brick Octodenary
Tile Octodenary
Steel Novendenary
Concrete Novendenary
Brick Novendenary
Tile Novendenary
Steel Vigenary
Concrete Vigenary
Brick Vigenary
Tile Vigenary
Steel Centenary
Concrete Centenary
Brick Centenary
Tile Centenary

BASEMENT FLOOR PLAN
UTILITIES BUILDING
FOR
PUGET SOUND POWER & LIGHT CO
N.E. CORNER 8TH AVENUE & ROY ST
SEATTLE WASHINGTON
JOHN GRAHAM, ARCHITECT
SEATTLE
JOB NO. 30
SHEET NO. 2
DRAWN TPK
CHECKED TPK
DATE 8-2-26
APPROVED
REVISIONS

NOTE If the microfilmed drawing is LESS clear than this notice it is due to the

24x

GARAGE WORK BENCH
Scale 1/2"=1'0"

ELEVATIONS OF GARAGE OFFICE
Scale 1/2"=1'0"

SECT AT CC

ELEV OF SOUTH WALL OF STOREROOM OFFICE
Scale 1/2"=1'0"

SECT
TYPICAL METAL TOILET PARTITION
Scale 1/2"=1'0"

DETAIL OF PLANK FLOOR IN GARAGE
Scale 1"=1'0"

SECTION

SECT AT ROOF

DETAIL OF ROOF
Scale 1"=1'0"

A

B

GARAGE
Floor El 32.25

STORE ROOM
Floor El 36.25

TRUCK SPACE

EIGHTH AVENUE

A

B

TOILET

LOCKER ROOM

CURTAIN SHOP

BLACKSMITH SHOP

INSP DIV OFFICE
Floor El 33.00

OFFICE

STOR DIV

ELEVATOR

PLATFORM

Wire Mesh Partitions 10'0" high

Rolling Steel Doors

Armor Plating

STOREROOM OFFICE

SHOWER

LINEMEN'S ROOM

LINEMEN'S TOILET ROOM

LINEMEN'S LOCKER ROOM

FOREMENS OFFICE

PRIVATE OFFICE

PRIVATE OFFICE

ENTRANCE

19" Service pole runs with crossarms perpendicular

FIRST FLOOR PLAN

UTILITIES BUILDING
FOR
PUGET SOUND POWER & LIGHT CO
S.E. CORNER 8TH AVENUE & [illegible]
SEATTLE, WASH.

JOB NO. 30
SHEET NO. 3

DR. W.C.F. TR. J.H.
CHECKED J.H.C.
DATE 5-2-22
APPROVED
DIVISIONS

JOHN GRAHAM & CO

CONC COPING

CHIMNEY CAP
SCALE 1½"=1'0"

Caulking
REGLET
Sawn Ext Wood Filler
Sompo Counterflashing
2 ply 5 ply Laminations
1 Coat Stuff
Conc Cornice
Conc Coping
Tile Roof
Sompo Roof
Clay Roofing Tile 2x3½ on edge 10" o.c.
Tile Ridge 8x8 on edge

DETAIL SHOWING FLASHING REGLET & CONC CORBEL TO RECEIVE ENDS OF ROOF LAMINATION
SCALE 1½"=1'0"

Skylight
Sky Light
Sky Light Curb
Sky Light Frame
Sky Light Sash
Sky Light Glass
Sky Light Cover
Sky Light Ventilator
Sky Light Operator
Sky Light Damper
Sky Light Hood
Sky Light Flashing
Sky Light Counterflashing
Sky Light Gutter
Sky Light Downspout
Sky Light Leader
Sky Light Strainer
Sky Light Trap
Sky Light Vent
Sky Light Overflow
Sky Light Drain
Sky Light Roof
Sky Light Roof Flashing
Sky Light Roof Counterflashing
Sky Light Roof Gutter
Sky Light Roof Downspout
Sky Light Roof Leader
Sky Light Roof Strainer
Sky Light Roof Trap
Sky Light Roof Vent
Sky Light Roof Overflow
Sky Light Roof Drain

NOTES
Dampers on skylights are to be operated from floor by means of rod and lever. Skylights in roof are to be operated by means of rod and lever with hooks at roof. See detail for height of counterflashing on roofs and parapet.

Cast Stone Coping
Gl Gutter
Gl Leader
Gl Strainer
Gl Trap
Gl Vent
Gl Overflow
Gl Drain
Gl Roof
Gl Roof Flashing
Gl Roof Counterflashing
Gl Roof Gutter
Gl Roof Downspout
Gl Roof Leader
Gl Roof Strainer
Gl Roof Trap
Gl Roof Vent
Gl Roof Overflow
Gl Roof Drain

31

ROOF PLAN
Scale ⅛"=1'0"

DRAWN	TK
CHECKED	JG
DATE	6-2-26
APPROVED	
REVISIONS	

UTILITIES BUILDING
FOR
PUGET SOUND POWER & LIGHT CO
NE Corner 8th Avenue & Roy St
SEATTLE WASHINGTON

JOB NO. 203
SHEET NO. 4

JOHN GRAHAM, ARCHITECT
SEATTLE

ALLEY ELEVATION

SCALE 1/8" = 1'-0"

8TH AVENUE ELEVATION

SCALE 1/8" = 1'-0"

EIGHTH AVE & ALLEY ELEVATIONS

SCALE 1/8" = 1'-0"

UTILITIES BUILDING

FOR

PUGET SOUND POWER & LIGHT CO.

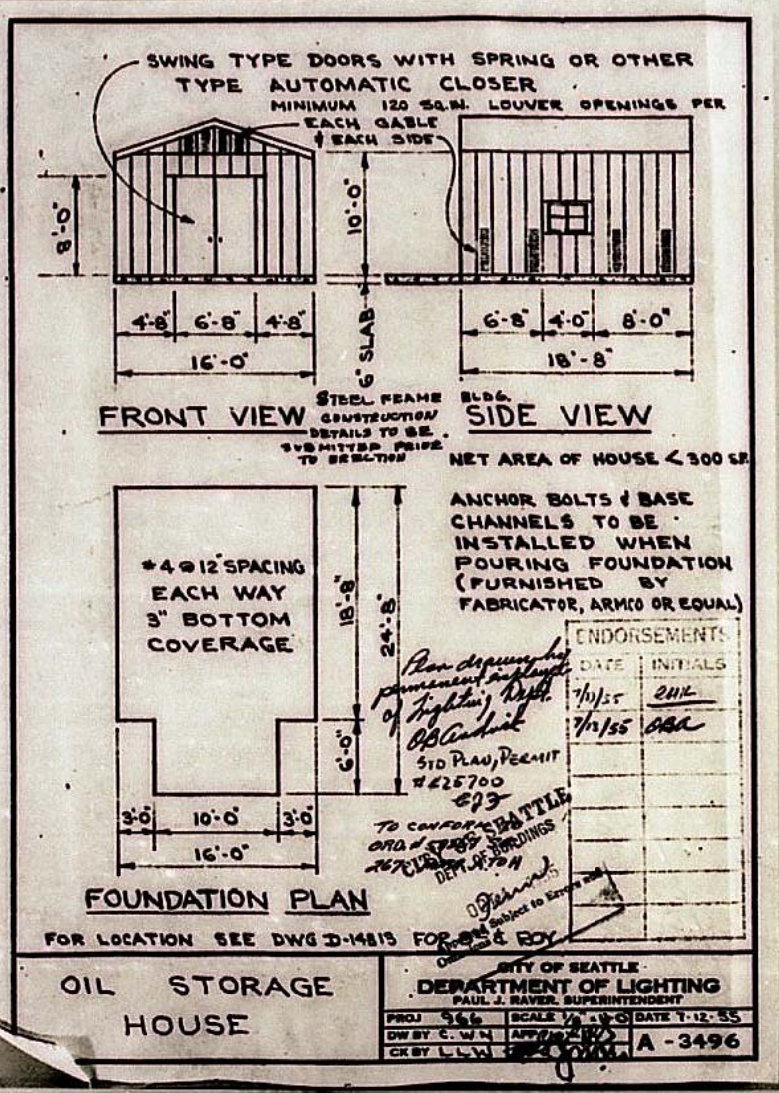
N.E. CORNER 8TH AVENUE & BELL ST.

SEATTLE WASHINGTON

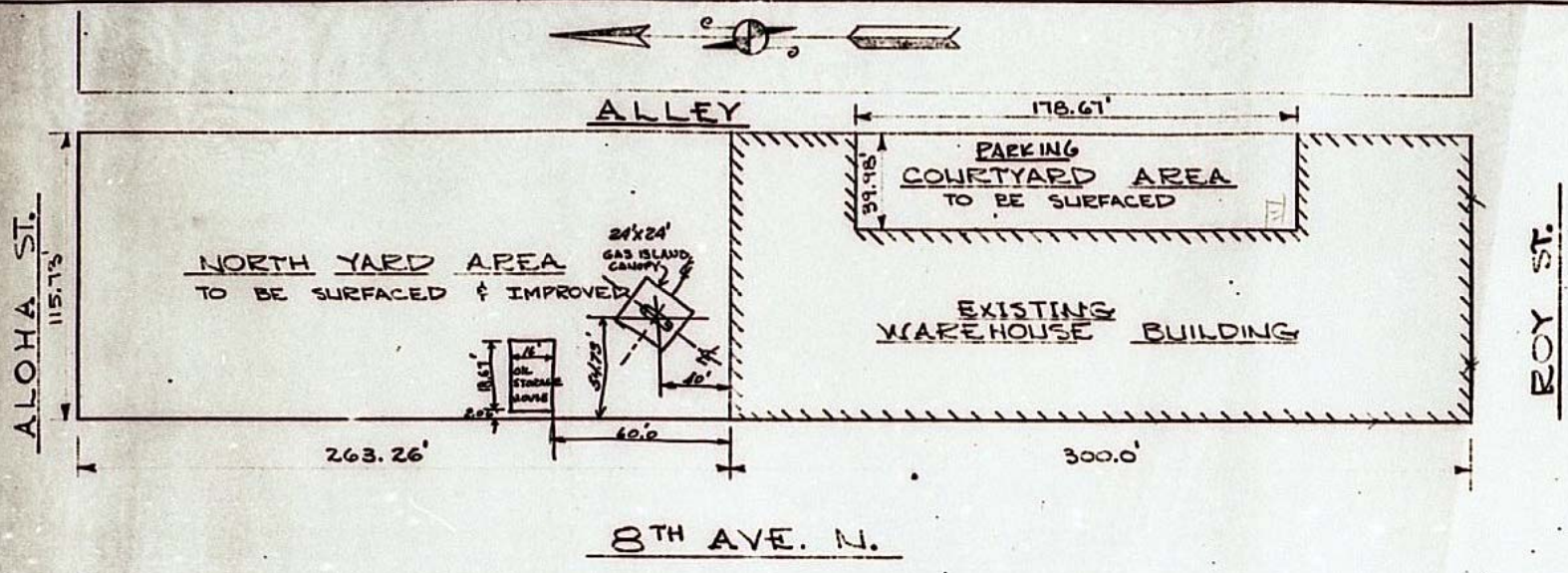
JOHN GRAHAM, ARCHITECT

JOB NO. 20

SHEET NO. 5


SWING TYPE DOORS WITH SPRING OR OTHER TYPE AUTOMATIC CLOSER
MINIMUM 120 SQ.IN. LOUVER OPENINGS PER EACH GABLE & EACH SIDE
8'-0"
10'-0"
6" SLAB
4'-8"
6'-8"
4'-8"
16'-0"
6'-8"
4'-0"
8'-0"
18'-8"
FRONT VIEW
STEEL FRAME BLDG. CONSTRUCTION DETAILS TO BE SUBMITTED PRIOR TO ERECTION
SIDE VIEW
NET AREA OF HOUSE < 300 S.F.
#4 @ 12" SPACING EACH WAY 3" BOTTOM COVERAGE
18'-8"
24'-8"
6'-0"
3'-0"
10'-0"
3'-0"
16'-0"
FOUNDATION PLAN
ANCHOR BOLTS & BASE CHANNELS TO BE INSTALLED WHEN POURING FOUNDATION (FURNISHED BY FABRICATOR, ARMCO OR EQUAL)
Plan dept. of Lighting, Dept. of Engineering
O.B. Architect
STD PLAN, PERMIT #125700
TO CONFORM TO SEATTLE ORD. # 57887 BUILDINGS
DEPT. OF PLAN
Subject to Engineering
ENDORSEMENTS
DATE
INITIALS
7/11/55
7/12/55
FOR LOCATION SEE DWG D-14813 FOR SITE PLAN
OIL STORAGE HOUSE
CITY OF SEATTLE
DEPARTMENT OF LIGHTING
PAUL J. RAVER, SUPERINTENDENT
PROJ 966
SCALE 1/4" = 1'-0"
DATE 7-12-55
DW BY C. W. M.
CK BY L. L. W.
A-3496

16x



DRAWING INDEX

D-14811 --- COURTYARD GRADING & PAVING PLAN
D-14812 --- EXISTING YARD PLAN
D-14813 -- NORTH YARD - PLAN OF GRADING, FENCE & MISC. YARD IMPROVEMENTS.
D-14818 -- FENCE CURB, ROCKERY, & OTHER MISC. DETAILS
D-14819 -- GASOLINE SERVICE ISLAND & CANOPY
D-14820 YARD SERVICE PIPING
D-14823 ELECTRICAL LAYOUT
H-1465 EXISTING GAS ISLAND INSTALLATION
A-3496 OIL STORAGE HOUSE
D-14940 HOSE REEL CABINET & SUPPORT

ADDRESS: 804 ROY ST.

ORIGINAL PERMIT NO. 257781

LEGAL DESCRIPTION

BLOCK 8 EDEN ADDN., AND WEST 115.73' OF LOTS 1, 2, 3, AND 4 BLOCK 80, AND WEST 115.73' OF LOTS 1 AND 2, BLOCK 82, LAKE UNION SHORELANDS, AND VACATED BROAD ST. (3,445)

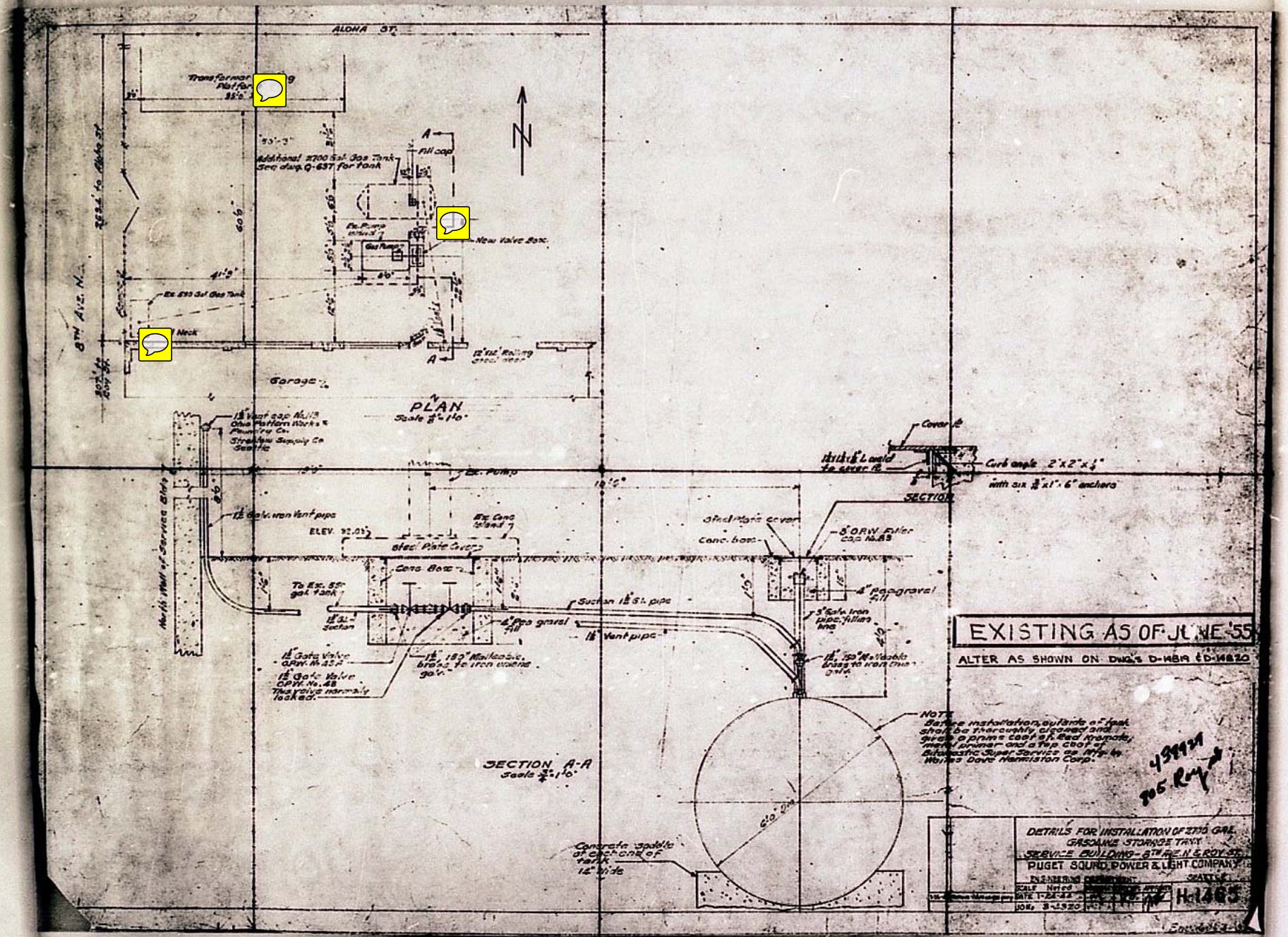
Plan drawn by permanent employee of Lighting Dept.
O. B. Andrick

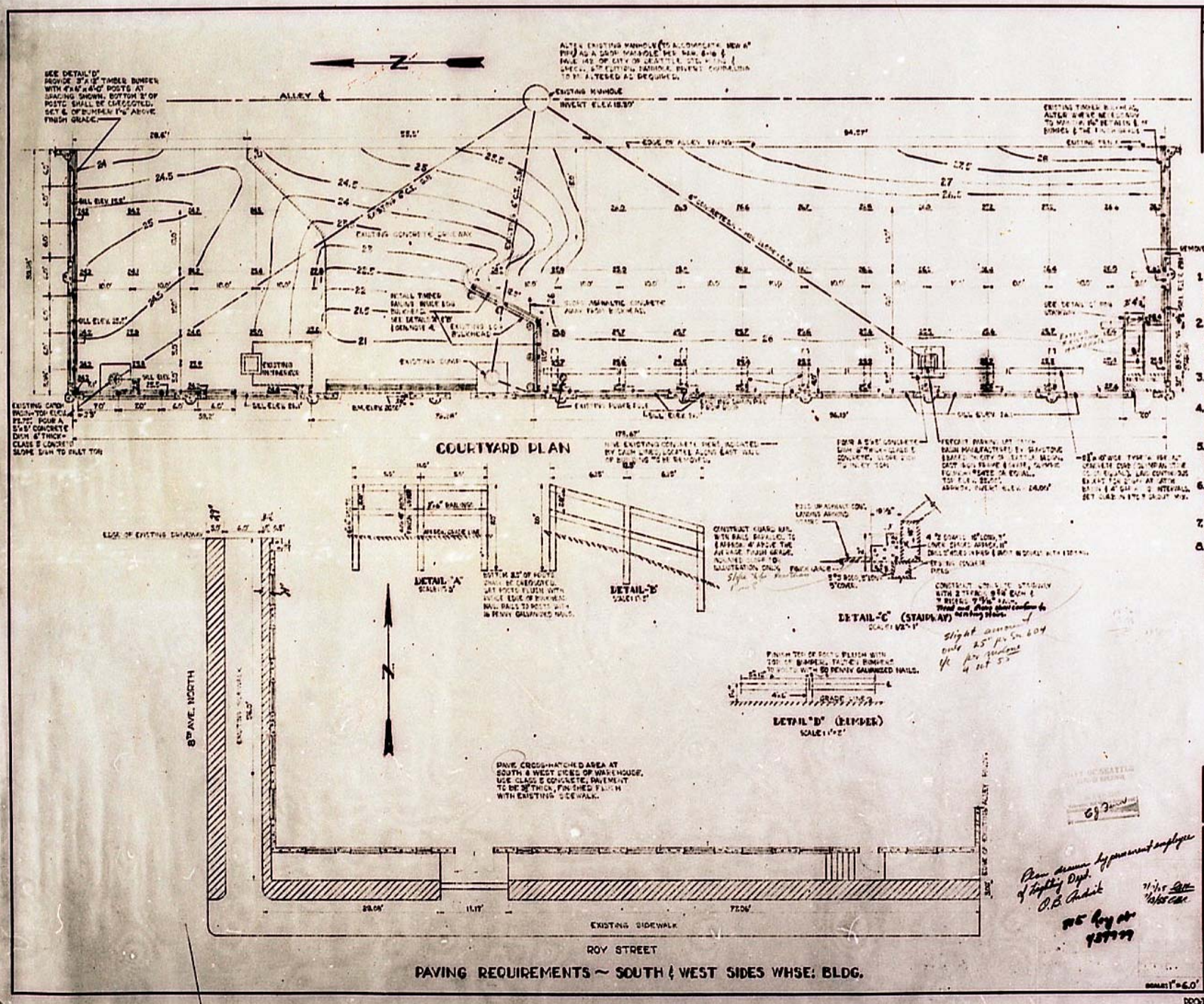
7/6/55 CHK
7/11/55

8TH & ROY ST. WAREHOUSE
PLOT PLAN
CITY OF SEATTLE
LIGHTING DEPARTMENT

ORD	SUB.	DATE 6-30-55
DW BY LLW	REC	C-4890
CH BY ARM	APP	

W.O. 515366-1 PROJECT 9666


ALOHA ST.
8TH AVE. N.
Additional 2700 Gal. Gas Tank
See dwg. Q-637 for Tank
Fill cap
New Valve Box.
Ex. 550 Gal Gas Tank
Neck
12'-0" Rolling steel door
Garage
PLAN
Scale 3/8"=1'-0"
Ex. Pump
Ex. Conc. Island
Steel Plate Cover
Conc. Box
To Ex. 550 gal Tank
Suction 1½" St. pipe
4" Pea gravel Fill
1½" Vent pipe
1½" Gate Valve O.P.W. No. 43-A
1½" Gate Valve O.P.W. No. 48
The valve normally locked.
1½" 150 "A" Malleable brass to iron union
Cover
Curb angle 2"x2"x¼"
with six ⅜"x1"x6" anchors
SECTION
Steel plate cover
Conc. box
5" O.P.W. Filler cap No. 89
5" Cast iron pipe filler line
SECTION A-A
Scale ½"=1'-0"
Concrete saddle at each end of tank 12" wide
EXISTING AS OF JUNE '55
ALTER AS SHOWN ON DWG'S D-1489 & D-1820
DETAILS FOR INSTALLATION OF 2700 GAL. GASOLINE STORAGE TANK
SERVICE BUILDING - 6TH AVE. N. & ROY ST.
PUGET SOUND POWER & LIGHT COMPANY
SCALE Not to
DATE 1-24-44
JOB 3-1920
H-1465



GENERAL NOTES

1. THE TWO COURTYARDS BOUNDED BY THE BUILDING WALLS, EXISTING CONCRETE DRIVEWAY AND ALLEY PAVEMENT SHALL BE FACED WITH BITUMINOUS CONCRETE OVER 4" CRUSHED ROCK BASE COURSE.
2. THE SLOPE INDICATED ON THE PLAN BETWEEN THE NORTH & WEST BUILDING WALLS AND BOACH RD 1494 IS AT 1" & 2" AND WILL USUALLY [illegible] EXISTING CONCRETE PAVEMENT [illegible] SLOPE TO BE EVENLY DISTRIBUTED FROM [illegible] END OF PAVEMENT.
3. [illegible] ELEVATIONS [illegible] ARE ON [illegible] DATUM.
4. THE WOOD RAILS SHALL BE SPACED AT NOT EXCEED 5'-0" [illegible] AND SHALL BE FASTENED WITH TWO 6"x6" [illegible] TREATMENT OF POSTS.
5. ALL CONCRETE SHALL BE CLASS B AS SPECIFIED AS PER SEATTLE BUILDING CODE, SECTION 437 & CITY OF SEATTLE STD. PLANS & SPECS. NOW IN EFFECT.
6. FOR ASPHALTIC CONCRETE & CRUSHED ROCK REQUIREMENTS SEE THE GENERAL SPECIFICATIONS ACCOMPANYING THESE PLANS.
7. ELEVATIONS CONFORM TO THE EXISTING GRADE.
8. THE ASPHALTIC CONCRETE SURFACING IN THE COURT AREAS SHALL BE FINISHED FLUSH WITH EXISTING ALLEY & SIDEWALK PAVEMENTS SO THAT THE FINISH GRADE THEY ABUT.

REVISIONS

Mark	Initial	DESCRIPTION	Date	Appd

CITY OF SEATTLE
LIGHTING DEPARTMENT

8TH & ROY ST. WAREHOUSE
COURTYARD GRADING & PAVING PLAN
& MISC. PAVING ~ SOUTH OF BLDG.

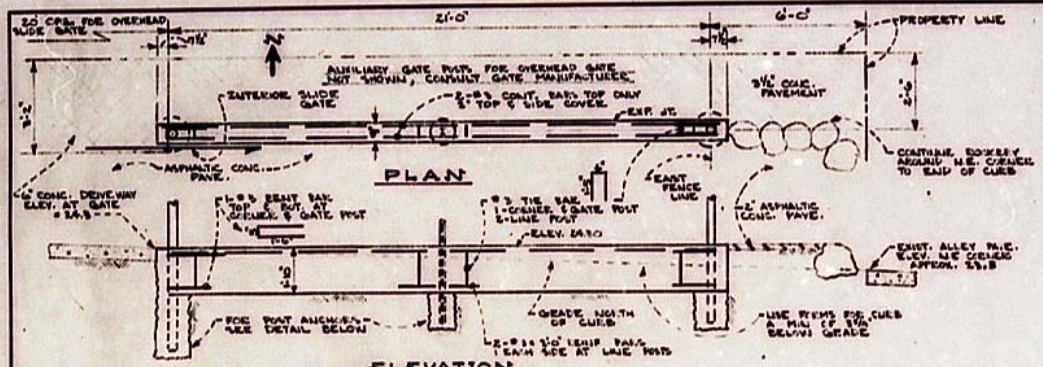
D 14811

PROJECT 866

Plan drawn by permanent employee of Lighting Dept. O.B. Andrik

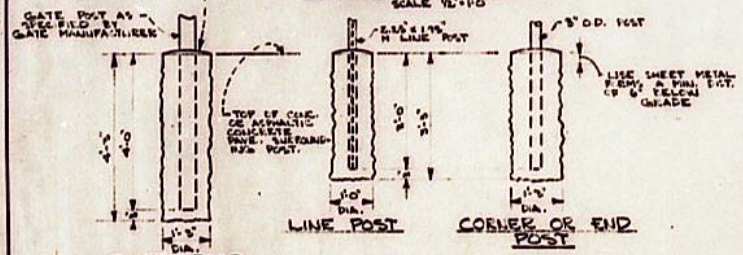
7/1/57 Slight change per Change Order 609

95 Roy St 95799



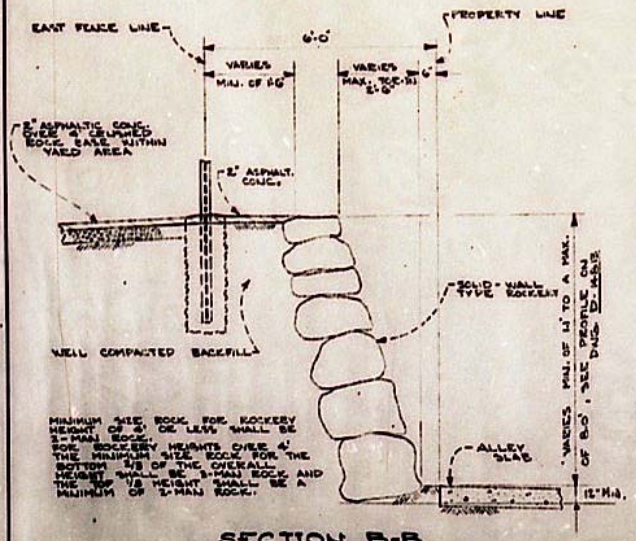
FENCE CURB DETAIL AT N.E. CORNER OF YARD

SCALE ½"=1'0"

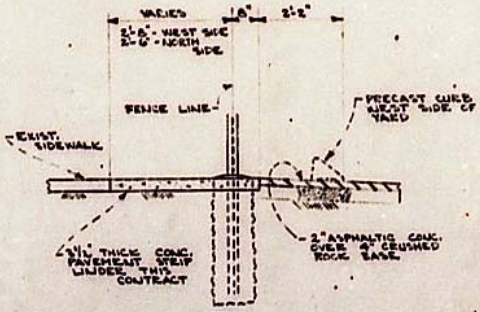


POST ANCHOR DETAILS

ALL CONCRETE AT POST ANCHORS SHALL BE CLASS 6.0



SECTION B-B
TYPICAL ROCKERY DETAIL



SECTION A-A

REFERENCE DWG'S

DWG. D-14813 --- YARD IMPROVEMENT PLAN.
DWG. C-4810 --- CONCRETE INDEX.

Plan drawn by permanent employee of Lighting Dept. O.B. Chadick

EXCEPT AS NOTED SCALE 3/8"=1'0"

PROJECT # 966

REVISIONS			
DATE	BY	DESCRIPTION	DATE APP'D

APPROVED BY THE BOARD OF PUBLIC WORKS
SEATTLE, WN. ____, 19__
SECRETARY

CITY OF SEATTLE
LIGHTING DEPARTMENT
8TH & ROY ST. WAREHOUSE

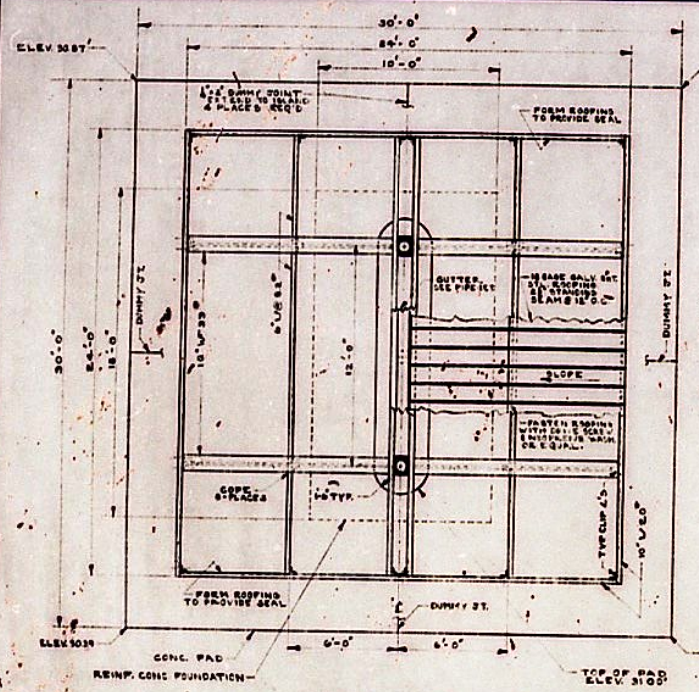
FENCE CURB, ROCKERY & OTHER MISC. DETAILS

DRAWN BY L.L.W. | TRACED BY | CHECKED BY | APPROVED BY

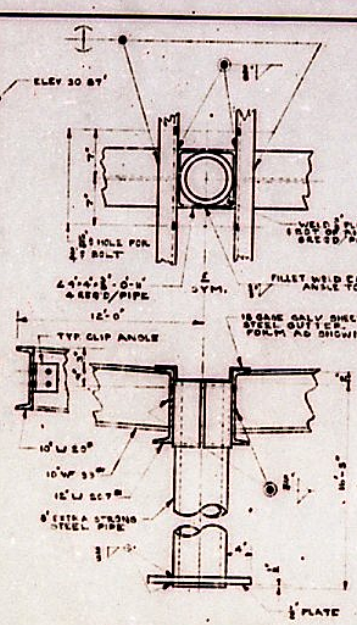
D-14818

SERIAL NO.

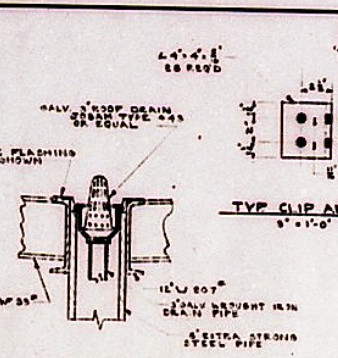
30x



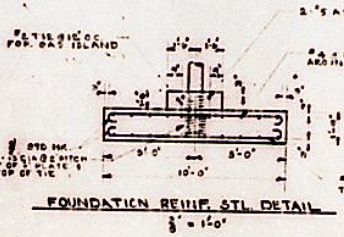
PLAN VIEW
1/4" = 1'-0"



PIPE COLUMN DETAIL
1/2" = 1'-0"



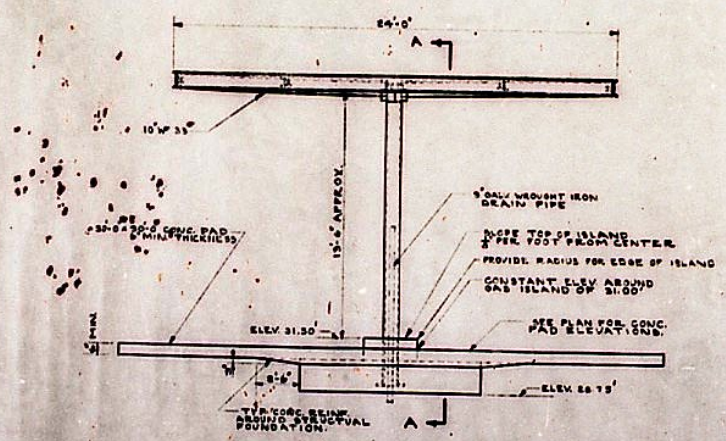
ROOF DRAIN DETAIL
1 1/2" = 1'-0"



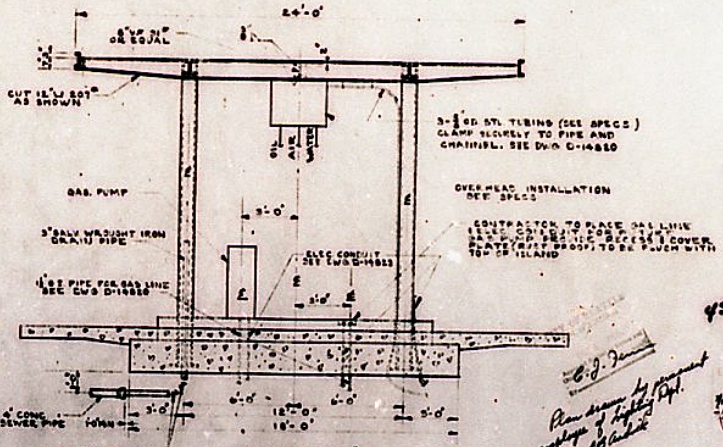
FOUNDATION REINF. STL. DETAIL
1/2" = 1'-0"

LOADS:
LL 85 P.S.F.
WL 20 M.P.H.
CONCRETE STRESSES
FOR CONC. f'c = 3000 PSI
FOR STL. fs = 20,000 PSI

NOTES:
1 USE CLASS "A" & CLASS "B" CONC. PER CITY SPECS. FOR CONC. PADS & CONC. FOUNDATION RESPECTIVELY.
2 USE SPECS. FOR PREPARATION OF CONCRETE & REINFORCEMENT TREATMENT OF CONCRETE.
3 FEED SWITCHED FOR LIGHTING IN SEPARATE CONDUIT.
4 USE DWG. D-14880 FOR LOCATION OF ELECTRICAL ISLANDS.
5 WELDING BY CITY CERTIFIED WELDERS.



FRONT ELEV.
1/4" = 1'-0"



SECTION "A-A"
1/4" = 1'-0"

FOR DWG INDEX SEE DWG D-14880

439929

C.J. Jones
Plan drawn by Engineering Dept. of Lighting Dept.
Architect

John Yee '66

APPROVED BY THE BOARD OF PUBLIC WORKS
SHEET NO. ____ OF ____ SHEETS
DATE ____ NUMBER ____

CITY OF SEATTLE
LIGHTING DEPARTMENT

8TH & ROY ST. WAREHOUSE

GASOLINE SERVICE ISLAND & CANOPY

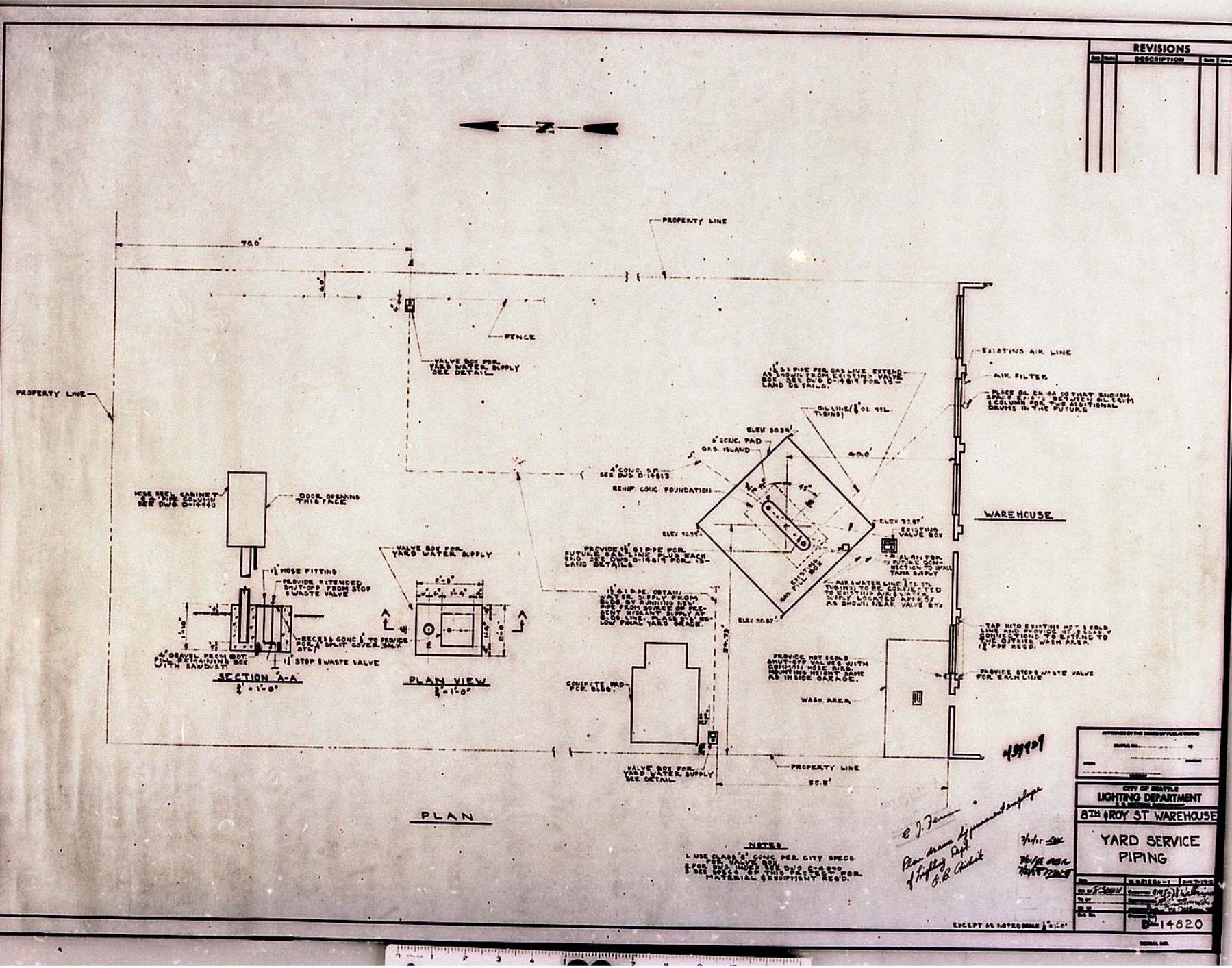
DRN.	M.D. PETERSON-11	DATE 7-1-68
DES. BY P. SCHULZ	SUBMITTED FOR APPROVAL	
TR. BY	RECOMMENDED FOR APPROVAL	
CK. BY	APPROVED	
SUB. NO.	CONSTRUCTION	D-14819

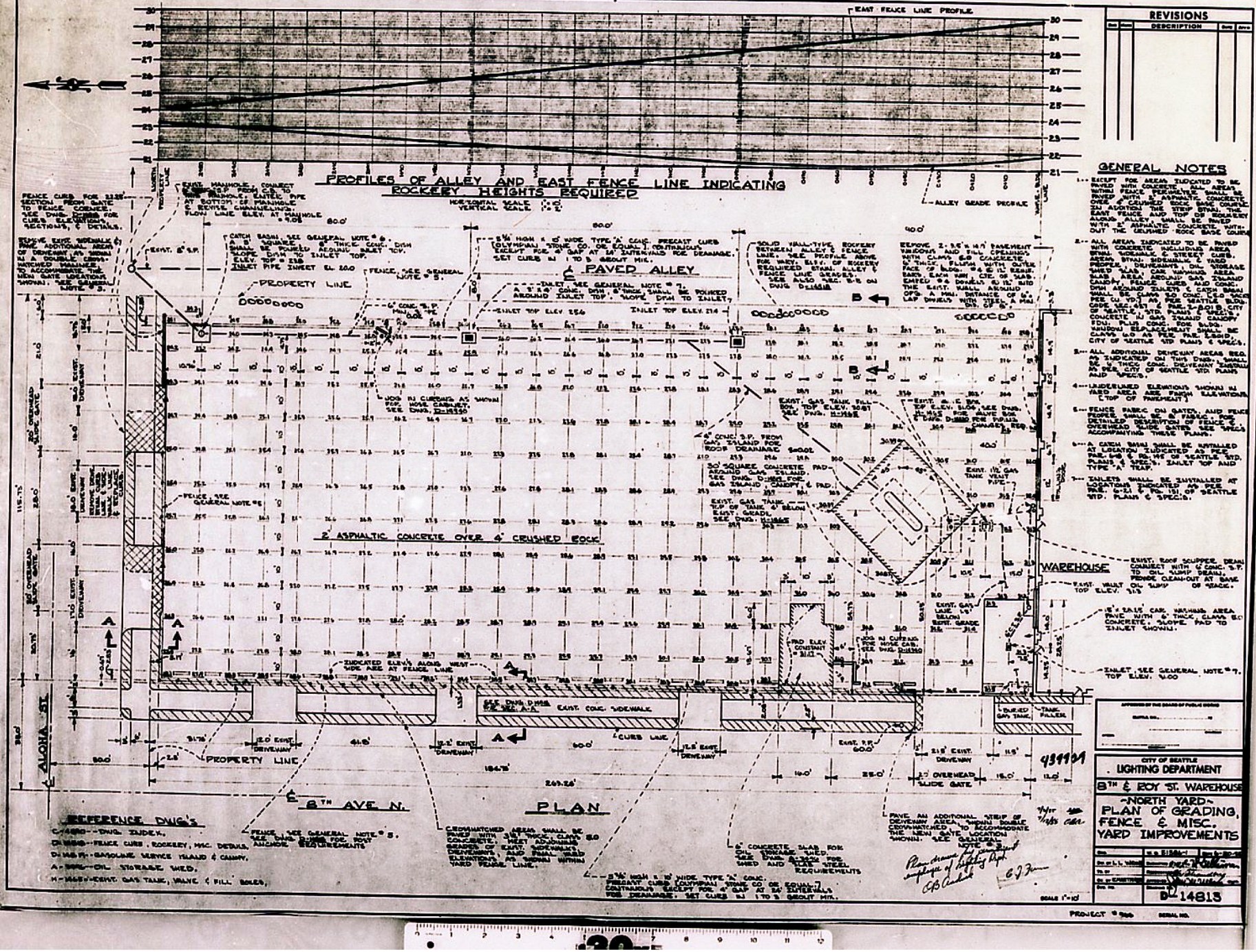
SCALE NOTED

SERIAL NO.

REVISIONS

NO.	DATE	DESCRIPTION	BY	APP'D


REVISIONS
DESCRIPTION
N
PROPERTY LINE
70.0'
FENCE
VALVE BOX FOR YARD WATER SUPPLY SEE DETAIL
PROPERTY LINE
EXISTING AIR LINE
AIR FILTER
OIL LINE (3 LINES)
ELEV 30.89'
CONC. PAD GAS. ISLAND
40.0'
CONC. S.P. SEE DWG D-14813
REINF. CONC. FOUNDATION
WAREHOUSE
ELEV 32.97'
EXISTING VALVE BOX
FILL BOX
ELEV 30.87'
HOSE REEL CABINET ON PIPE COLUMN SEE DWG D-14945
DOOR OPENING THIS FACE
VALVE BOX FOR YARD WATER SUPPLY
HOSE FITTING
PROVIDE EXTENDED SHUT-OFF FROM STOP & WASTE VALVE
RECESS CONC. TO PROVIDE FOR 4" SPLIT COVER SLAB
4" GRAVEL FROM BOTTOM OF EXCAVATIONS BOX WITH SAWDUST
STOP & WASTE VALVE
SECTION A-A
1" = 1'-0"
PLAN VIEW
1" = 1'-0"
CONCRETE PAD FOR BLDG.
WASH AREA
PROVIDE HOT & COLD SHUT-OFF VALVES WITH COUPLING HOSE RISER MOUNTING HEIGHT SAME AS IN DISC GARAGE.
PROVIDE STOP & WASTE VALVE FOR EACH LINE
VALVE BOX FOR YARD WATER SUPPLY SEE DETAIL
PROPERTY LINE
55.8'
PLAN
NOTES
1. USE CLASS "B" CONC. PER CITY SPECS.
2. FOR VALVE BOX SEE DWG D-14820
3. SEE SPECS. & PROPOSAL FOR MATERIAL & EQUIPMENT REQ'D.
EXCEPT AS NOTED
CITY OF SEATTLE
LIGHTING DEPARTMENT
8TH & ROY ST WAREHOUSE
YARD SERVICE PIPING
D-14820



REVISIONS

No.	Date	DESCRIPTION	Date	Appr.

GENERAL NOTES

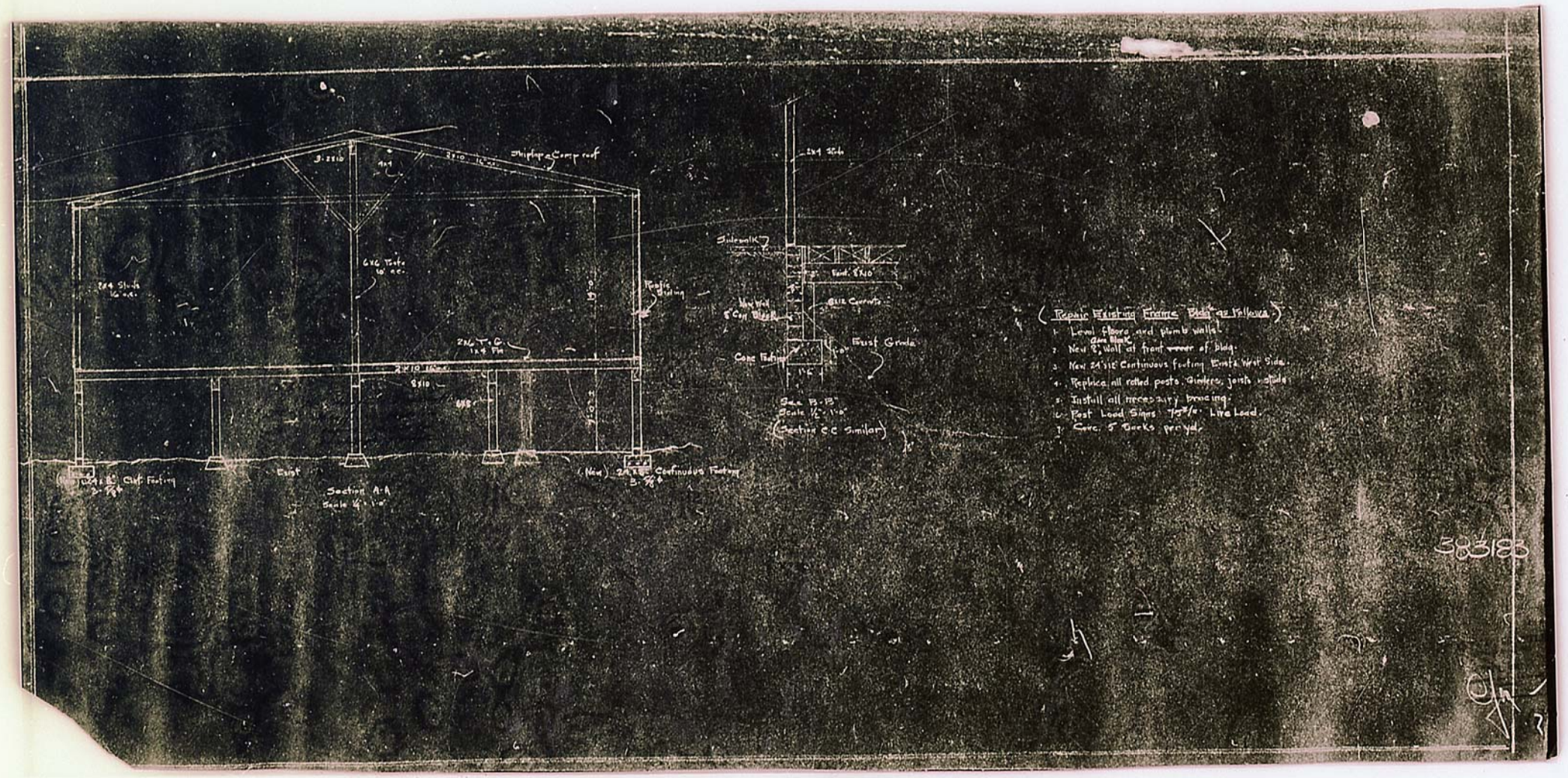
1. EXCEPT FOR AREAS INDICATED TO BE PAVED WITH CONCRETE, ALL AREAS WITHIN FENCE PERIMETER SHALL BE PAVED WITH 2" ASPHALTIC CONCRETE OVER 4" CRUSHED ROCK BASE COURSE. IN ADDITION, THE STRIP BETWEEN THE EAST FENCE AND TOP OF ROCKERY ALONG ALLEY SHALL BE PAVED WITH 2" ASPHALTIC CONCRETE, WITHOUT THE CRUSHED ROCK BASE COURSE.
2. ALL AREAS INDICATED TO BE PAVED WITH CONCRETE, INCLUDING AREAS BEHIND SIDEWALK & STREET CURB, AREAS BTWN. SIDEWALKS & YARD FENCES, DRIVEWAYS, OIL STORAGE SHED SLAB, CAR WASHING AREA, ALLEY, ASPHALTIC CONC. PAVING, CATCH BASINS, INLAND CATCH BASINS, PEDESTRIAN CURBS AND CONC. DISH AROUND INLETS & CATCH BASIN SHALL BE CLASS 3.0 CONC. (3.0 SACKS PER CU. YD.) AS PER SEATTLE BLDG. CODE SEC. 2613 & REF. 2-B(2) B, CITY OF SEATTLE STD. PLANS & SPECIFICATIONS. CONCRETE IN GAS ISLAND CANOPY SLAB, PLUS CONC. FOR SIDEWALK DEPRESSIONS SHALL BE CLASS 4.0 AS PER THE LATEST CITY OF SEATTLE STD. PLANS & SPEC'S.
3. ALL ADDITIONAL DRIVEWAY AREAS REQ. AS INDICATED ON THIS DWG., SHALL BE THICK CONC. DRIVEWAY CONSTRUCTION PER CITY OF SEATTLE STD. PLANS AND SPEC'S.
4. UNDERLINED ELEVATIONS SHOWN IN PAVED AREA ARE FINISH ELEVATIONS (TOP OF PAVEMENT.)
5. FENCE FABRIC ON GATES, AND FENCE POSTS SHALL BE AS FABRIC & POST DETAILS. FOR DESCRIPTION OF FENCE & OVERHEAD SLIDE GATES, SEE SPEC'S ACCOMPANYING THESE PLANS.
6. A CATCH BASIN SHALL BE INSTALLED AT LOCATION INDICATED AS PER PARA. 6-B & 6-H OF SEATTLE STD. PLANS & SPEC'S. INLET TOP AND TYPE "A" TRAP.
7. INLETS SHALL BE INSTALLED AT LOCATIONS INDICATED AS PER PARA. 6-B & 6-H OF SEATTLE STD. PLANS & SPEC'S.

REFERENCE DWG'S

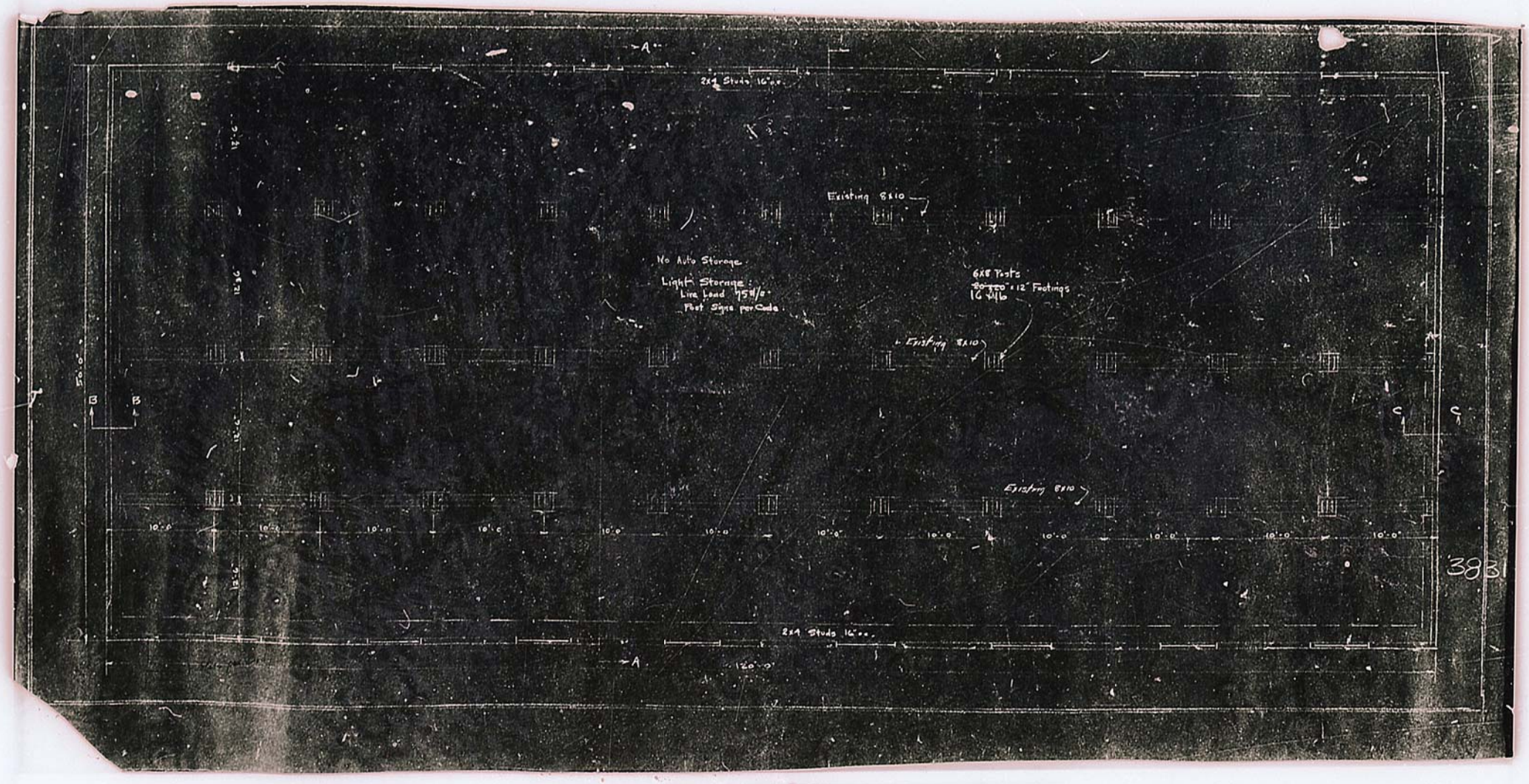
C-4680 - DWG. INDEX,
D-14813 - FENCE, CURB, ROCKERY, MISC. DETAILS,
D-14815 - GASOLINE SERVICE ISLAND & CANOPY,
A-3890 - OIL STORAGE SHED,
H-14859 - EXIST. GAS TANK, VALVE & FILL BOXES,

CITY OF SEATTLE
LIGHTING DEPARTMENT
8TH & ROY ST. WAREHOUSE
-NORTH YARD-
PLAN OF GRADING, FENCE & MISC. YARD IMPROVEMENTS

D-14813

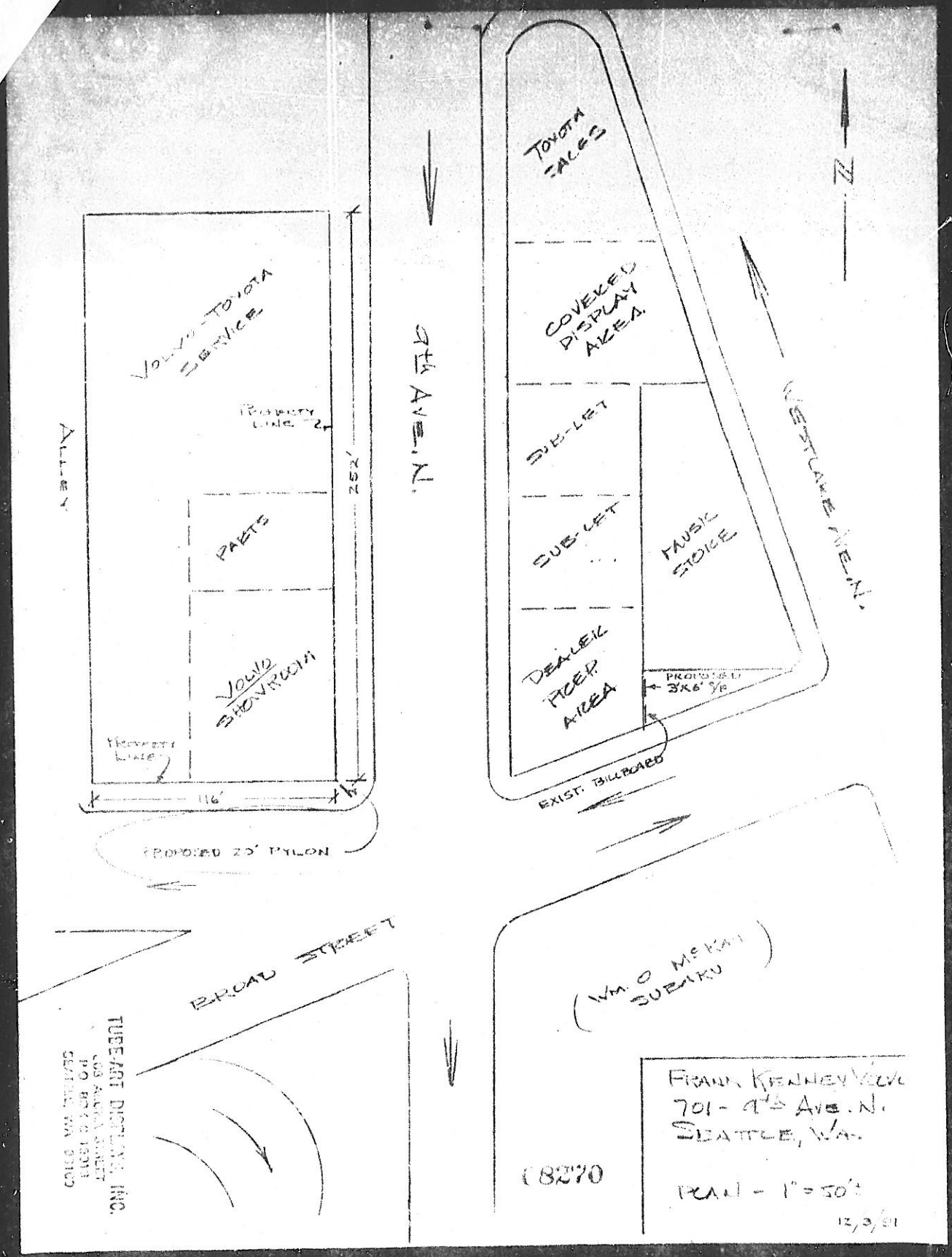

Shiplap & Comp roof
3-2x10
2x4 Studs 16" o.c.
6x6 Posts 10' o.c.
Plastic Glazing
2x6 T&G 1x4 Fin
2x10 16" o.c.
8x10
6x8
Exist
Section A-A
Scale ½" = 1'-0"
(New) 24"x8" Continuous Footing
3-#4
2x4 Rafts
Sidewalk
Roof 8x10
New Wall 8" Con Block
8x12 Concrete
Roof Girder
Conc Footing
See B-B
Scale ½" = 1'-0"
(Section C-C Similar)
(Repair Existing Feature Bldg as Follows)
1. Level floors and plumb walls.
2. New 8" Wall at front corner of bldg. (see Block)
3. New 24"x12" Continuous footing Entire West Side.
4. Replace all rotted posts, timbers, joists & studs
5. Install all necessary bracing.
6. Post Load Signs 75#/s.f. Live Load.
7. Conc. 5 Sacks per yd.
383183

24x


2x4 Studs 16" o.c.
Existing 8x10
No Auto Storage
Light Storage:
Live Load 75#/s.f.
Post Signs per Code.
6x8 Posts
30"x30"x12" Footings
16 Mils
Existing 8x10
Existing 8x10
2x4 Studs 16" o.c.
120'-0"
10'-0"
3831

24x

East-Adjoining Properties
701-753 9th Avenue North Parcels


TOYOTA SALES
COVERED DISPLAY AREA
SUB-LET
SUB-LET
SUB-LET
MUSIC STORE
PROPOSED 3'x6' 1/2
EXIST. BILLBOARD
9th Ave. N.
WESTLAKE AVE. N.
N
VOLVO - TOYOTA SERVICE
PROPERTY LINE
252'
PARTS
VOLVO SHOWROOM
PROPERTY LINE
116'
ALLEY
PROPOSED 25' PYLON
BROAD STREET
(WM. O. McKAY SUBIKU)
TUBE-ART DISPLAYS, INC.
FRANK KENNEY VOLVO
701 - 9th Ave. N.
SEATTLE, WA.
8270
SCALE - 1" = 30'
12/9/81

ALLEY

REMOVE

BOILER ROOM

LOCKER ROOM

HOLD OPEN WITH FUSIBLE LINK

REPLACE BRICK JAMB WITH CONC. COL. 10"x24" W/ 4-#4 WITH TIES @ 8"@ 10"

TRUCK STORAGE

NEW LAV. 18"x18" GI. VENT THRU ROOF AS PER CODE SEC 70

EXIST. MEN'S TOILET

ADDITION TO TOILET

WALLS 2-2x6 @ 24"

NEW TOILETS

PARTS STORAGE

REMOVE STAIRS

WOMEN

BALCONY OVER

NOTES: PLUMBING FIXTURES:
STANDARD
LAV - HEXAGON - P. 3807 R.
WATER CLOSETS - 3IAC10 - F. 2180
RENEW WORKS OF URINAL
FLUSH TANKS
TOILET PARTITIONS TO MATCH
EXISTING TOILET PARTITIONS

N

EXISTING TOILET

OFFICE

OFFICE

GENERAL OFFICE

PARTS ROOM

STORAGE

OFFICE

REMOVE WALL

PIT

ROY ST.

OFFICE

OFFICE

OFFICE

OFFICE

NINTH AVE. N.

RESET FOLDING DOOR HARDWARE & PROVIDE NEW WEATHER STRIPS

FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

701-23 9th Ave N
127085
26 Apr 64

DRAWINGS AND PRINTS AS AN INSTRUMENT OF SERVICE ARE THE PROPERTY OF THE ARCHITECT. CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB

DONALD EARL ROBERTS REGISTERED TO PRACTICE STATE OF WASHINGTON LICENSED ARCHITECT

ALTERATIONS AND ADDITIONS TO
N.W. CORNER BUILDING FOR
THE BAGLEY-MERCER CO.
OWNERS

DONALD EARL ROBERTS - ARCHITECT
5638 - 36th S.W. SEATTLE 6, WASH. HO 0532

DATE 3-27-64 | DRAWN BY DER. | CHECKED BY | SCALE | SHEET NO. 159-1

ALLEY

BREAK UP FLOOR AND FILL ALL VOIDS

6" ROOF DRAIN (OVER)

STAIR OPEN

SHELVES

6" ROOF DRAIN (OVER)

BOILER ROOM

DRAIN TO BE CONNECTED TO PRESENT SEWER LINE

CEIL IN STAIRWAY ROOM TO BE 7'-10" HIGH CEIL TO BE 7'-2 1/2" T&G

TRUCK STORAGE SPACE NO. 1

NEW FLOOR

K

K

REMOVE PARTITIONS & FIXTURES

CEIL IN NEW ROOM TO BE 8'0" HIGH CEIL TO BE 7'-2 1/2" T&G

RAISE CEILING TO BE 8'0" HIGH TO SPACE DUE TO TEST EXPOSED

PARTS STORAGE

PROVIDE 2" CORK BLOCKS ON 1/2" PLYWOOD SET ON BOTTOM OF ROOF TRUSSES & ABOVE FINISH CEIL

PROVIDE NEW CEILING BOARDS INSTALLED BY TENANT

6" CURB

WOMEN

DISPLAY ROOM

NEW FL. MARK SAME AS OLD FL

REMOVE PARTITION & FIXTURES

NEW FLOOR TO BE LEVEL

PARTS ROOM

ROOF OVER BALCONY TO BE 2 LAYERS 1/2" INSULITE ON 2" x 6" T&G DECK ON 2" x 6" JOISTS @ 24" O.C. ON 2" x 8" JOISTS @ 24" O.C.

NEW FLOOR TO BE LEVEL

PARTS ROOM OFFICE

TEMPORARY PARTITION 2" x 4" STUDS @ 24" O.C. COVER ON OFFICE SIDE WITH 1/4" PLYWOOD SEAL UP SPACE OVER GIRDER

REMOVE PARTITION & FIXTURES

PARTS ROOM OFFICE WHEN BUILDING IS READY AND MOVE BACK WHEN FLOOR IS IN PLACE.

BREAK IN FL

BREAK IN FL

TEMPORARY DUSTPROOF PARTITION

GENERAL OFFICE

BOYD ST

NINTH AVE. N.

MACHINE SHOP

DOORS

TRUCK STORAGE SPACE NO. 2

COVER CEILING AREA WITH PLYWOOD THRU SPACE BTWN 4" PLYWOOD

ALL NEW CONCRETE FLOORS TO BE 5" THICK WITH WWF 6x6x6 - 12"0/0 REINFORCING.

ALL SCREEDS TO BE FULL DEPTH.

ALL NEW PARTITIONS TO BE DOUBLE 2x4 T&G 24" O.C. STEAM RETURNS WHERE NECESSARY & REMOVE SO THEY WILL BE NEXT TO A PARTITION.

CEMENT TO BE BROUGHT TO ELEVATIONS AS SHOWN.

BREAK OUT OLD FLOOR.

SAW CONSTRUCTION JOINTS ARE VERTICAL.

WRAP ALL PIPES WITH 1/2" x 5" EXPANSION JOINTS AT POINT THEY PASS THRU FLOOR.

ALL NEW DOORS 2'-0" x 6'-8" x 1 3/8" - 2 PNL FIR

HANG ALL NEW DOORS ON 1 1/2 PAIR OF BUTTS

TRUCK STORAGE SPACE NO. 3

PRESENT MANHOLE

PRESENT CATCH BASIN

6" ROOF DRAIN (OVER)

SHOP

REHANG AND ADJUST PRESENT DOORS. PROVIDE NEW CATCHES FOR TOP BOLTS - CATCHES TO BE MADE OF 3/16" STEEL PLATE AND BOLTED TO LINTEL WITH 3/8" EXPANSION BOLTS - CONTRACTOR TO SUBMIT SHOP DRAWINGS.

DOORS

DOORS

DOORS

DOORS

DOORS

DOORS

9th Ave N

FIRST FLOOR PLAN

SCALE: 1/8"=1'-0"

DONALD EARL ROBERTS REGISTERED 10 MAY 1941 TL 2377 STATE OF WASHINGTON LICENSED ARCHITECT

CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB

ALTERATIONS TO TRUCK-TRUCK BLDG

ADDRESS N.W. COR. 9TH & BOYD ST.

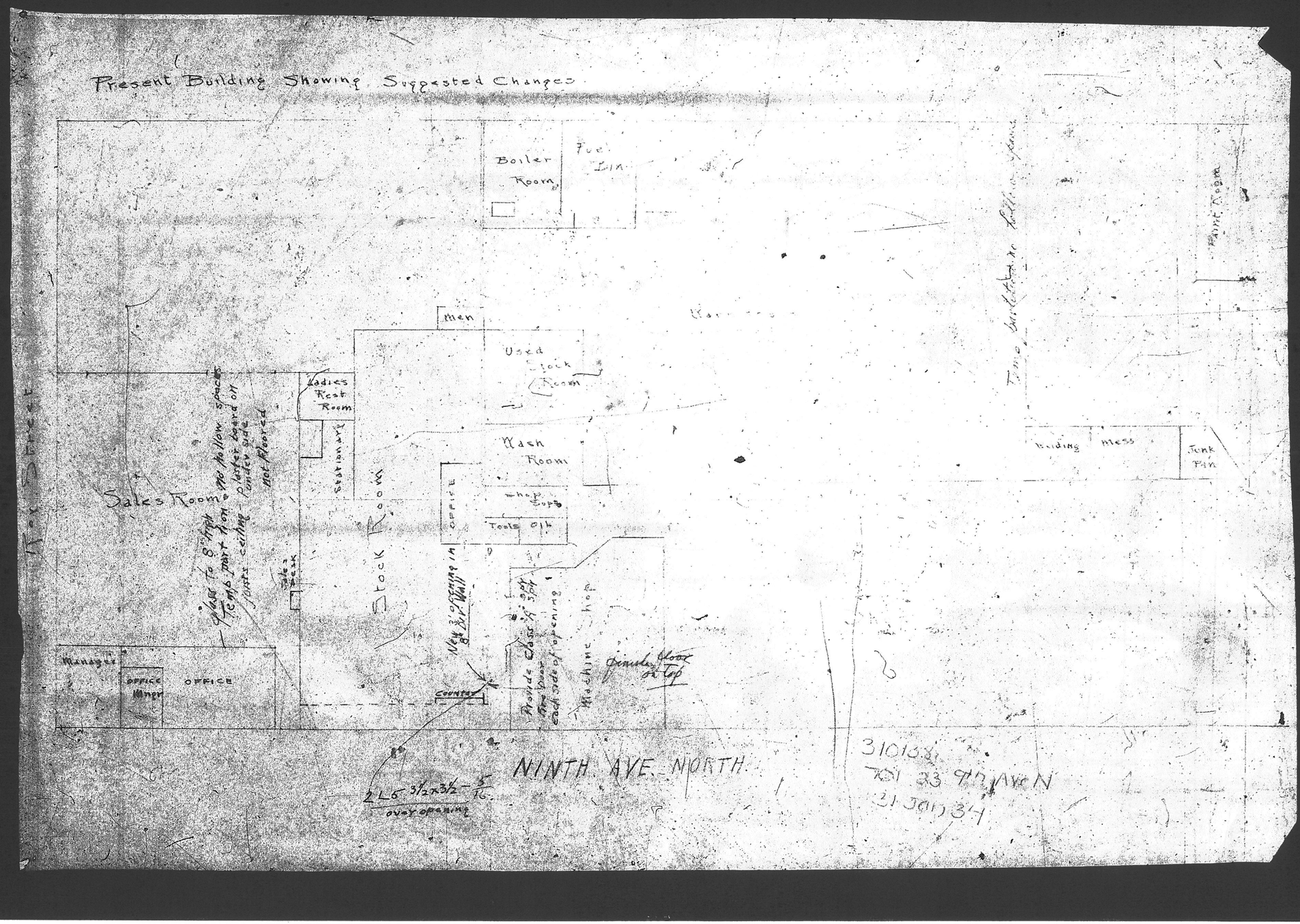
OWNER BAGLEY-MERCER CO.

DONALD EARL ROBERTS ARCHITECT SEATTLE

DATE 5-22-56 7-10-56

SHEET A-10

Present Building Showing Suggested Changes



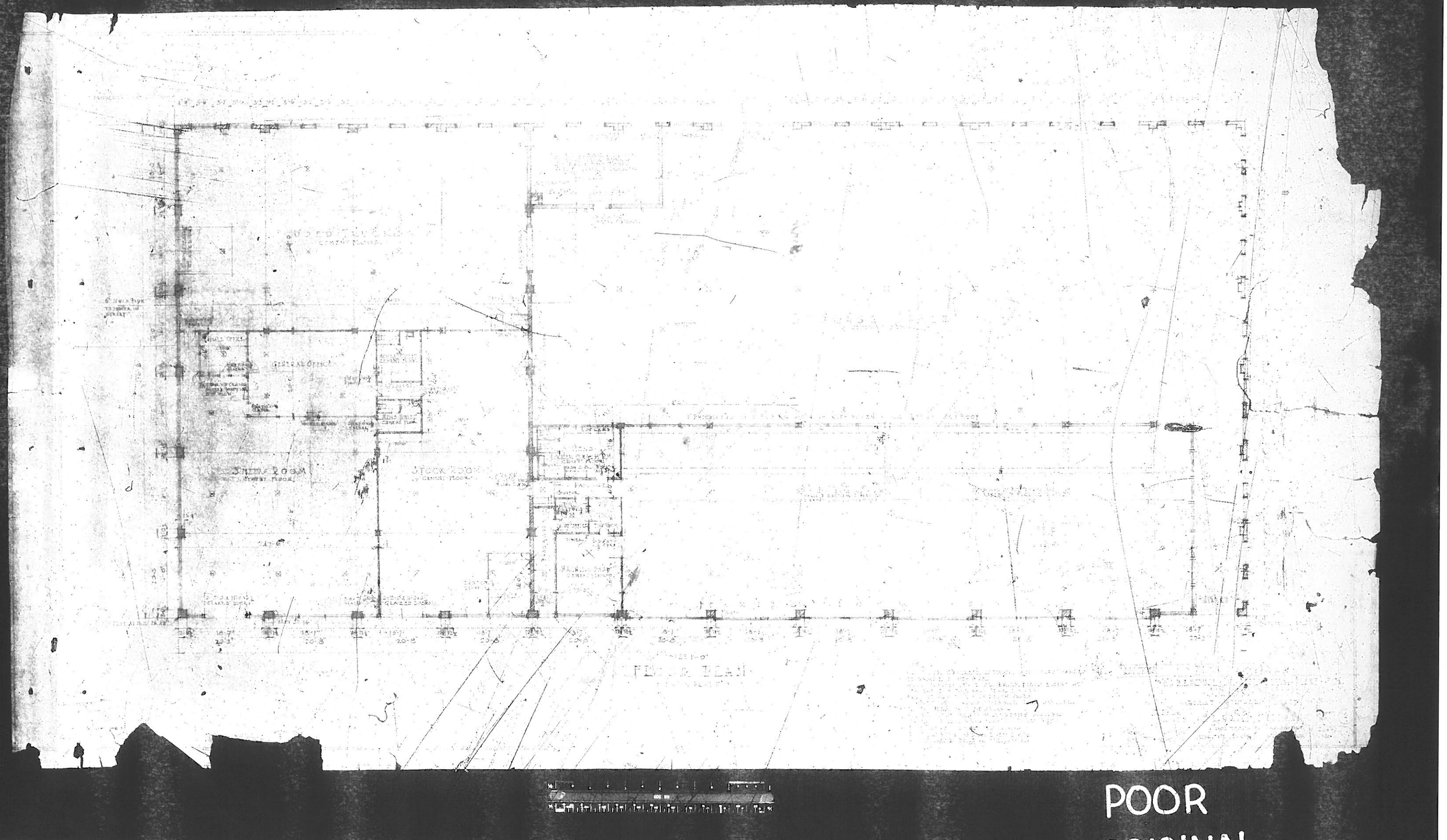
CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB

DONALD EARL ROBERTS
REGISTERED
1947
ARCHITECT

ALTERATIONS TO YACK-TZUCK BLDG
7TH AVE N & ROY ST
FOR MERCER CO OWNERS

DONALD EARL ROBERTS ARCHITECT
LOYD BLDG SEATTLE 1, WASH. MA 5852

DATE	DRAWN	CHECKED	JOB NO.	SHEET NO.
10-8-47	DER		4719	1 OF 2



POOR ORIGINAL

61'-6"

129'-6"

112'-6"

FUTURE TENANT

EXISTING AREA

SEE ENLARGE PLAN FOR AREA REQUIREMENTS

NEW FIRE-PLACE

REPAIR AREA

(5) stalls req'd for Specialty Food Store

1 2 3 4 5

41'-4"

FLOOR PLAN

1/8"=1'-0"

NORTH

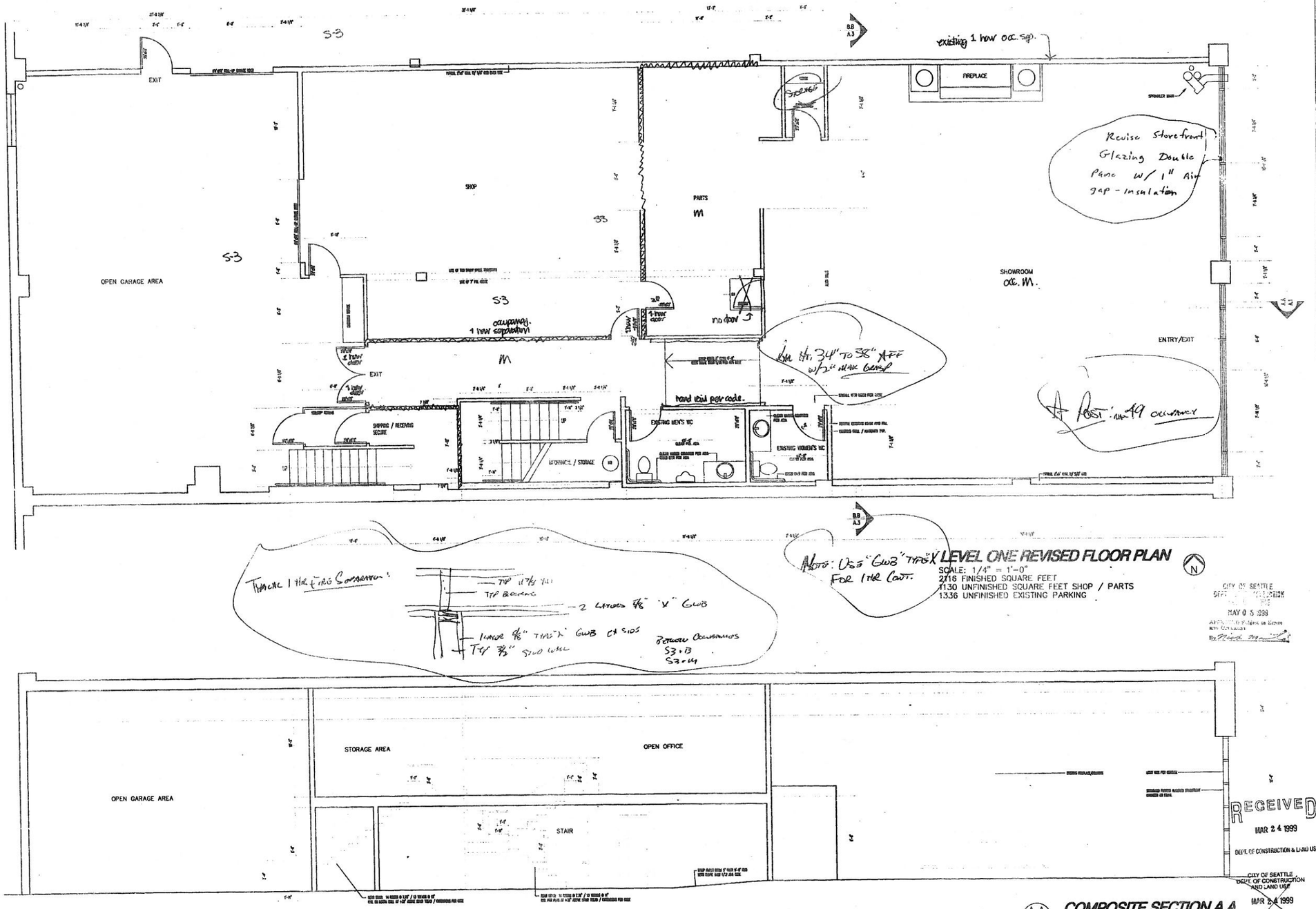
RECEIVED
JUL 30 1996
Dept. of Construction & Land Use

KENNEY PROPERTY

701 9th AVENUE NORTH

SEATTLE WASHINGTON 98109

2



LEVEL ONE REVISED FLOOR PLAN

SCALE: 1/4" = 1'-0"
2716 FINISHED SQUARE FEET
1130 UNFINISHED SQUARE FEET SHOP / PARTS
1336 UNFINISHED EXISTING PARKING

COMPOSITE SECTION A.A

SCALE: 1/4" = 1'-0"

RECEIVED
MAR 24 1999
DEPT. OF CONSTRUCTION & LAND USE

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAR 24 1999
Approved
Subject to Errors and Omissions

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAY 05 1999
APPROVED AS NOTED IN LETTER DATED MAY 05 1999
BY

MARTIN HENRY KAPLAN
M·H·K ARCHITECTURE
THE M-H-K ARCHITECTS
A I A
600 UNIVERSITY STREET 1818, SEATTLE, WA. 98101
TEL. 206.682.8600 FAX. 206.223.4990
251 HILLSIDE DR. P.O. BOX 492, KETCHUM ID. 83340
TEL. 208.725.0014 FAX. 208.725.0041

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REGISTERED ARCHITECT
3637
MARTIN HENRY KAPLAN
STATE OF WASHINGTON

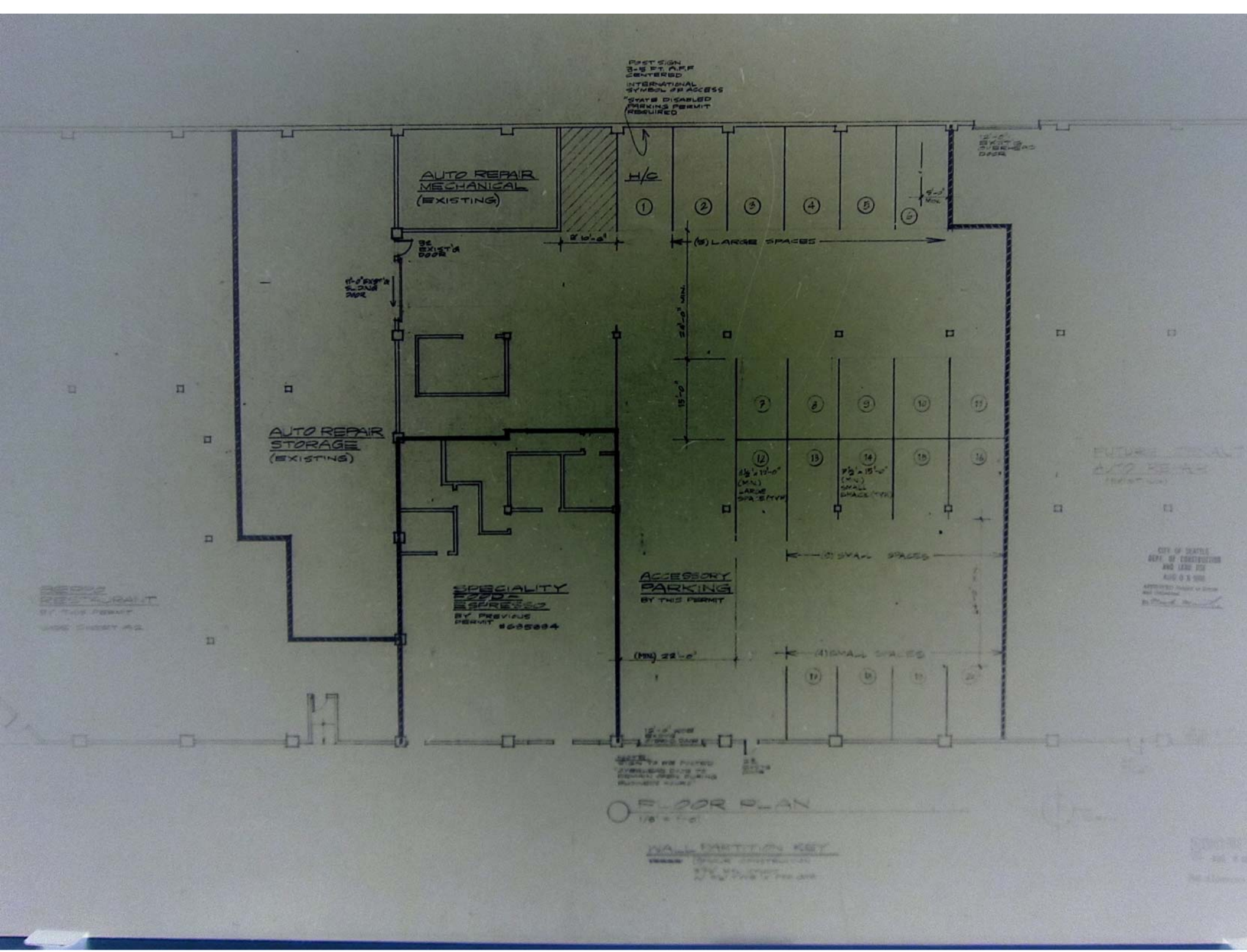
DUCATI SEATTLE

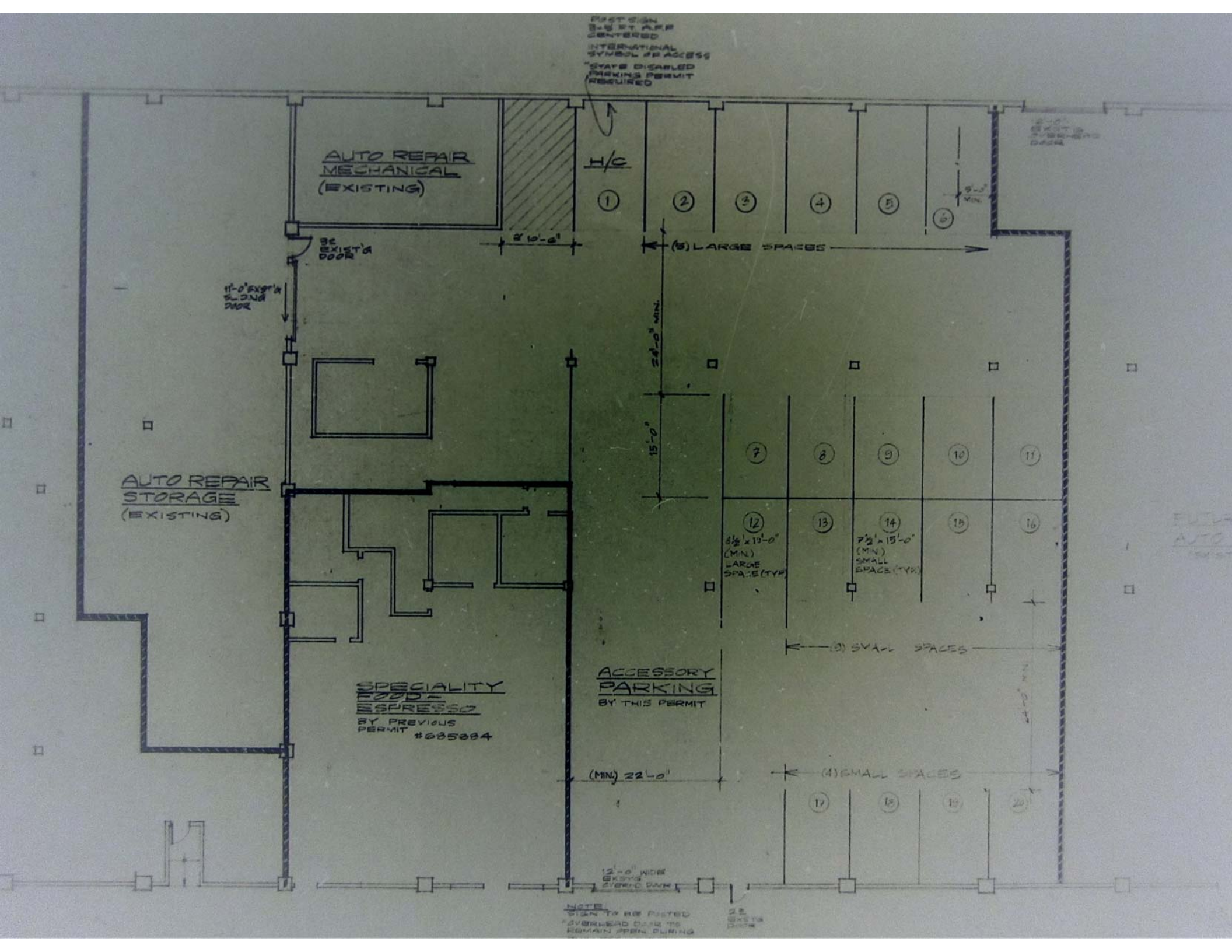
711 9th Avenue North, Seattle Washington 98109

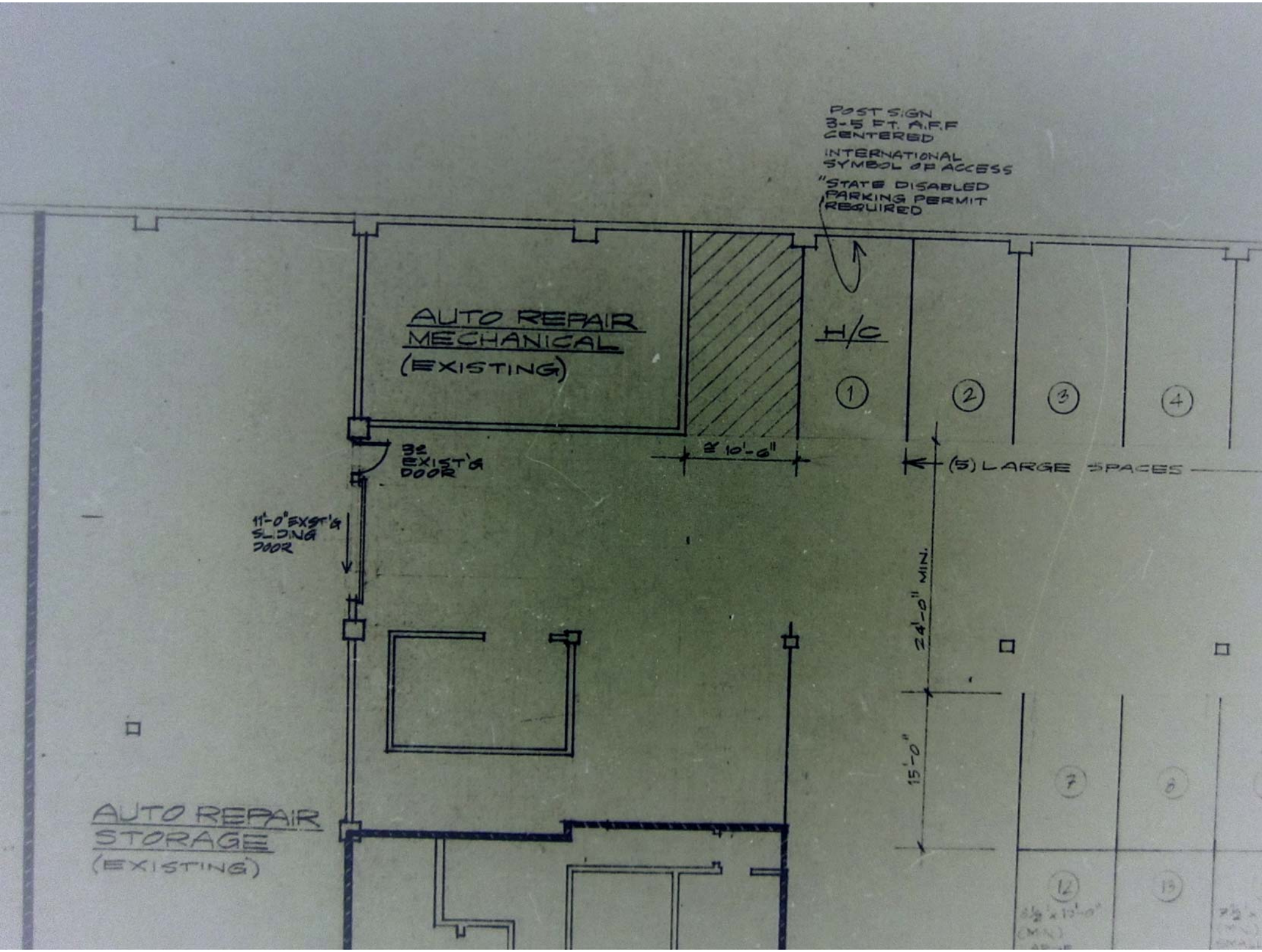
NO	DESCRIPTION	DATE
9	CONST DOC 1	03.20.99
8	STRUCTURAL FINAL	03.18.99
7	STRUCTURAL 1	03.17.99
6	DES DEVELOP 3	03.16.99
5	DES DEVELOP 2	03.15.99
4	DES DEVELOP 1	03.07.99
3	PRE SCHEMATICS 3	02.24.99
2	PRE SCHEMATICS 2	02.14.99
1	PRE SCHEMATICS 1	02.07.99

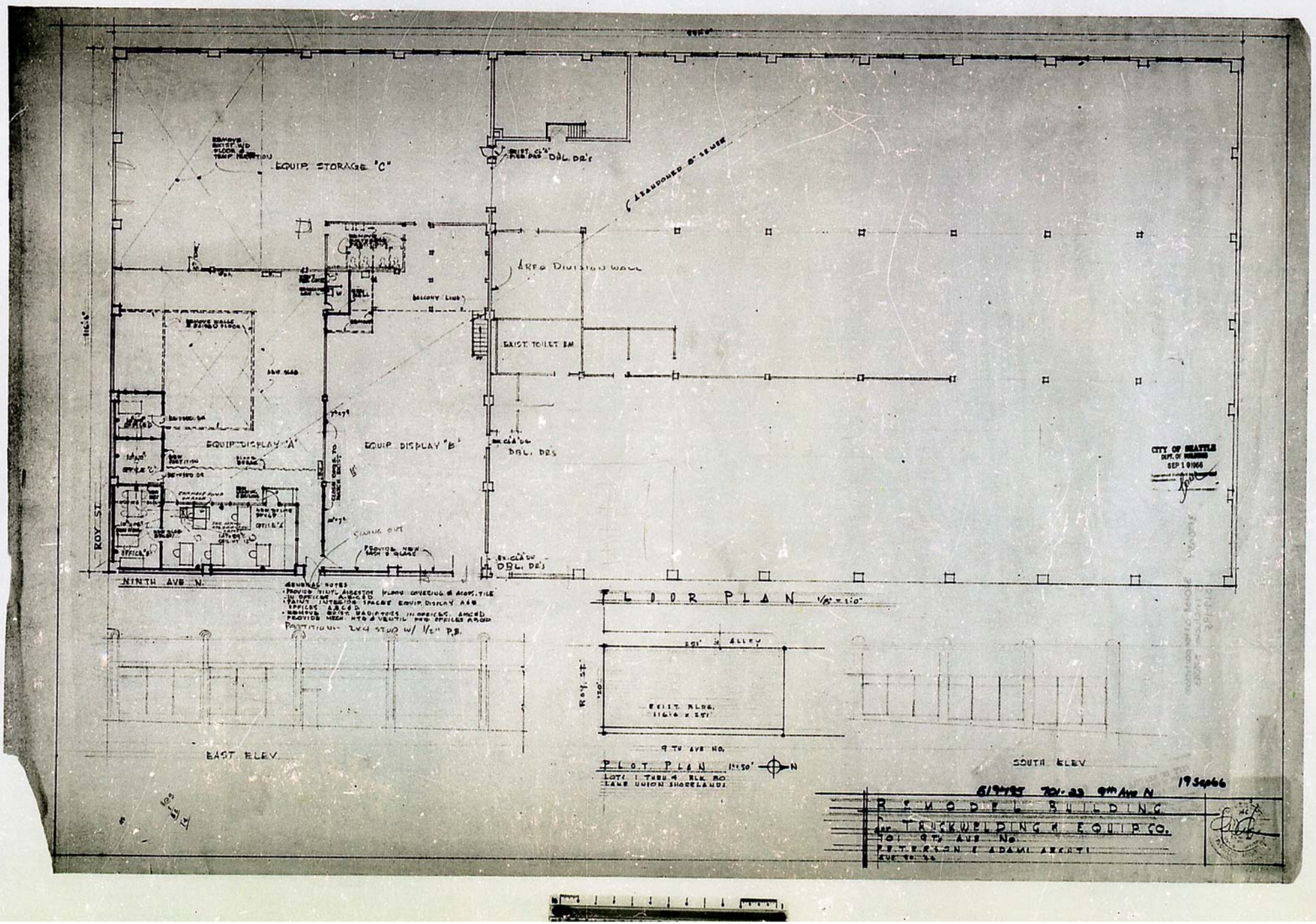
DRAWN BY: MHK
SCALE: 1/4" = 1'-0"

A.2

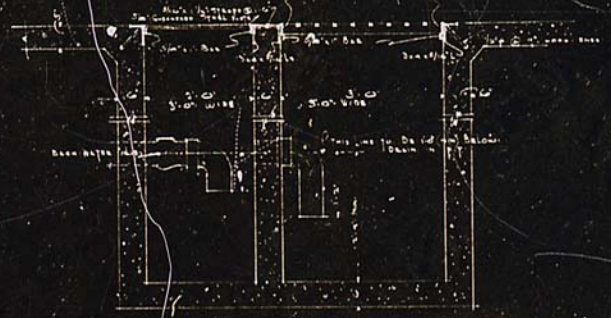

POST SIGN
8-5 FT. A.F.F
CENTERED
INTERNATIONAL
SYMBOL OF ACCESS
"STATE DISABLED
PARKING PERMIT
REQUIRED
AUTO REPAIR
MECHANICAL
(EXISTING)
H/C
1
2
3
4
5
6
(5) LARGE SPACES
AUTO REPAIR
STORAGE
(EXISTING)
7
8
9
10
11
12
13
14
15
16
(5) SMALL SPACES
SPECIALITY
FOOD
ESPRESSO
BY PREVIOUS
PERMIT #635894
ACCESSORY
PARKING
BY THIS PERMIT
(MIN) 22'-0"
(4) SMALL SPACES
17
18
19
20
FLOOR PLAN
1/8" = 1'-0"
WALL PARTITION KEY


POST SIGN
5-6 FT A.F.F.
CENTERED
INTERNATIONAL
SYMBOL OF ACCESS
"STATE DISABLED
PARKING PERMIT
REQUIRED
AUTO REPAIR
MECHANICAL
(EXISTING)
H/C
1
2
3
4
5
6
5'-3" MIN.
8'-10'-0"
(5) LARGE SPACES
3E
EXIST'G
DOOR
11'-0" EXIST'G
SLIDING
DOOR
24'-0" MIN.
15'-0"
7
8
9
10
11
12
8½' x 19'-0"
(MIN.)
LARGE
SPACE (TYP.)
13
14
7½' x 15'-0"
(MIN.)
SMALL
SPACE (TYP.)
15
16
AUTO REPAIR
STORAGE
(EXISTING)
(9) SMALL SPACES
SPECIALITY
FOOD &
ESPRESSO
BY PREVIOUS
PERMIT #685084
ACCESSORY
PARKING
BY THIS PERMIT
(MIN.) 22'-0"
(4) SMALL SPACES
17
18
19
20
12'-0" WIDE
EXSTG
OVERHD DOOR
NOTE:
SIGN TO BE POSTED
"OVERHEAD DOOR TO
REMAIN OPEN DURING
2E
EXSTG
DOOR


POST SIGN
3-5 FT. A.F.F
CENTERED
INTERNATIONAL
SYMBOL OF ACCESS
"STATE DISABLED
PARKING PERMIT
REQUIRED
AUTO REPAIR
MECHANICAL
(EXISTING)
H/C
1
2
3
4
3'-0" EXIST'G
DOOR
± 10'-6"
(5) LARGE SPACES
11'-0" EXST'G
SLIDING
DOOR
24'-0" MIN.
15'-0"
AUTO REPAIR
STORAGE
(EXISTING)
7
8
12
13


EQUIP. STORAGE "C"
ABANDONED 8" SEWER
AREA DIVISION WALL
EXIST. TOILET RM
EQUIP. DISPLAY "A"
EQUIP. DISPLAY "B"
DBL. DRS
ROY. ST.
NINTH AVE N.
CITY OF SEATTLE
SEP 1 0 1966
FLOOR PLAN 1/8" = 1'-0"
EAST ELEV.
SOUTH ELEV.
PLOT PLAN 1"=50'
LOTS 1 THRU 4 BLK 80
LAKE UNION SHORELANDS
EXIST. BLDG.
9TH AVE NO.
R & M O D E L BUILDING
for TRICKWELDING & EQUIP CO.
701 9th Ave No.
PETERSON & ADAMI ARCHTS
19Sep66

TYPICAL CONTRUCTION JOINT



SECTION THRU CATCH BASIN

SECTHRU PIT CURBS

385383 23 Jan 58

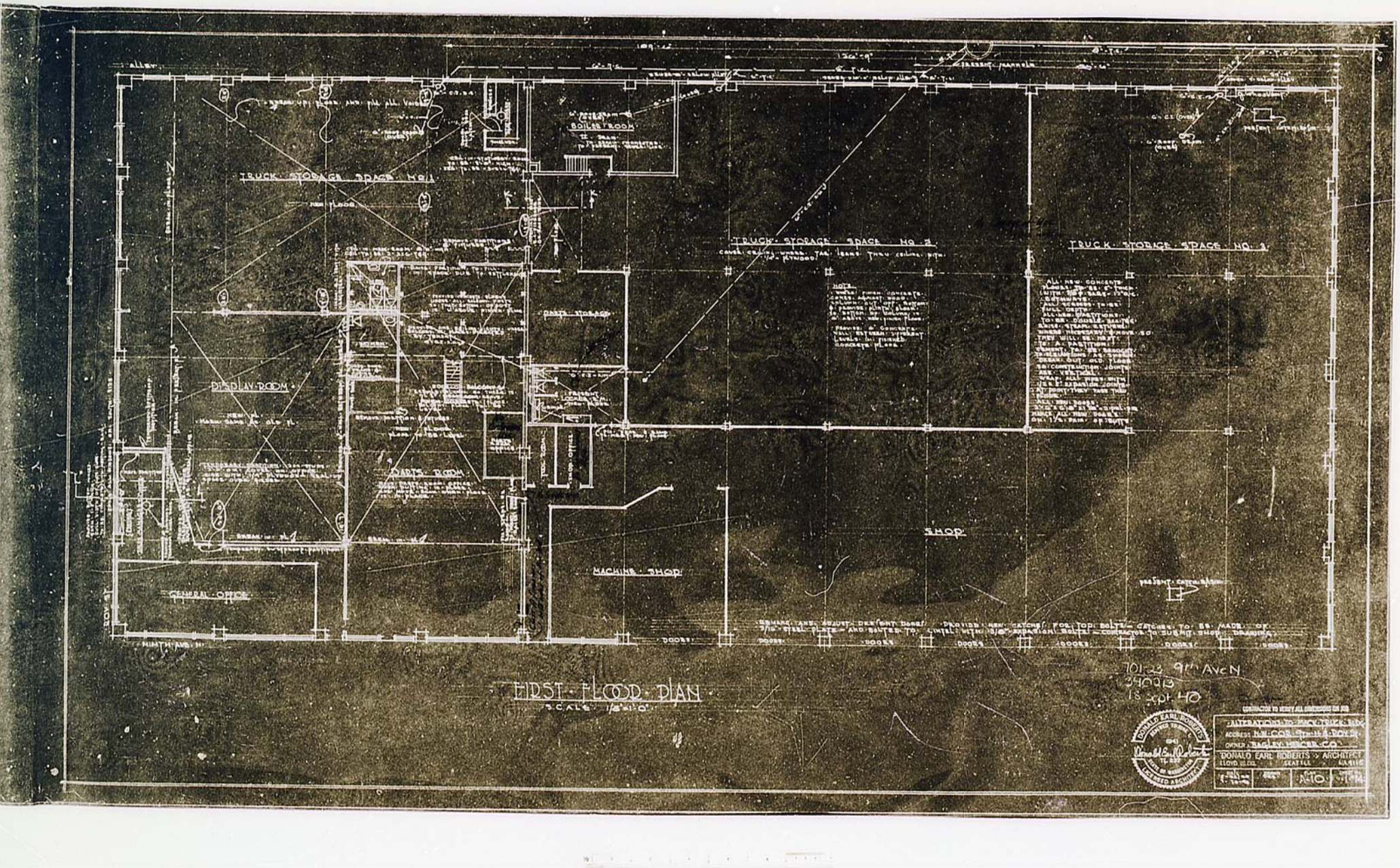
704 23 9th Ave N

CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB

ALTERATIONS TO MACK TRUCK BLDG
9TH AVE N & ROY ST
BAGLEY MERCER CO, OWNERS

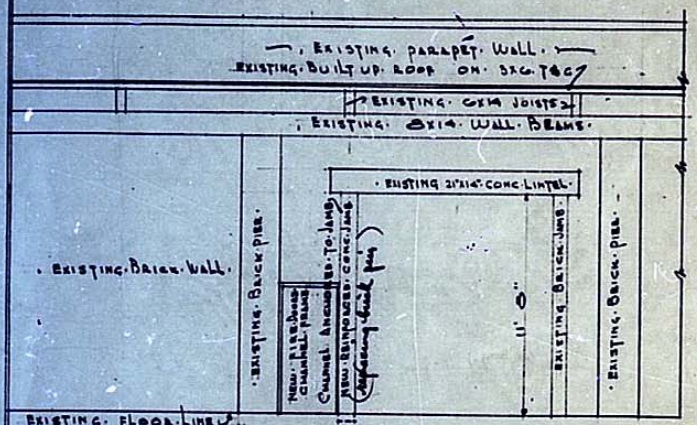
DONALD EARL ROBERTS ARCHITECT
LLOYD BLDG. SEATTLE 1, WASH. MA. 3383

DATE		REV.	SHEET NO.
7-8-57		47-19	2 of 2



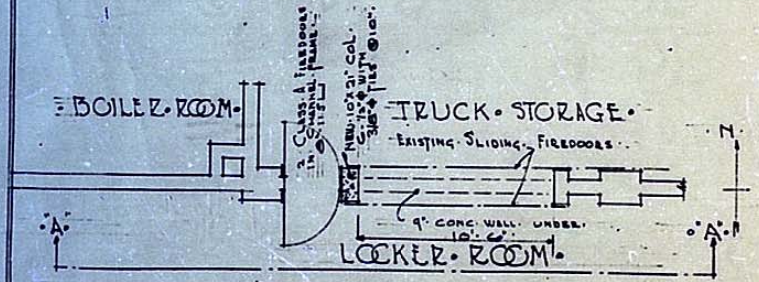
FIRST FLOOR PLAN

SCALE 1/8"=1'-0"



SECTION A-A

SCALE 1/4"=1'-0"



PLAN

SCALE 1/4"=1'-0"

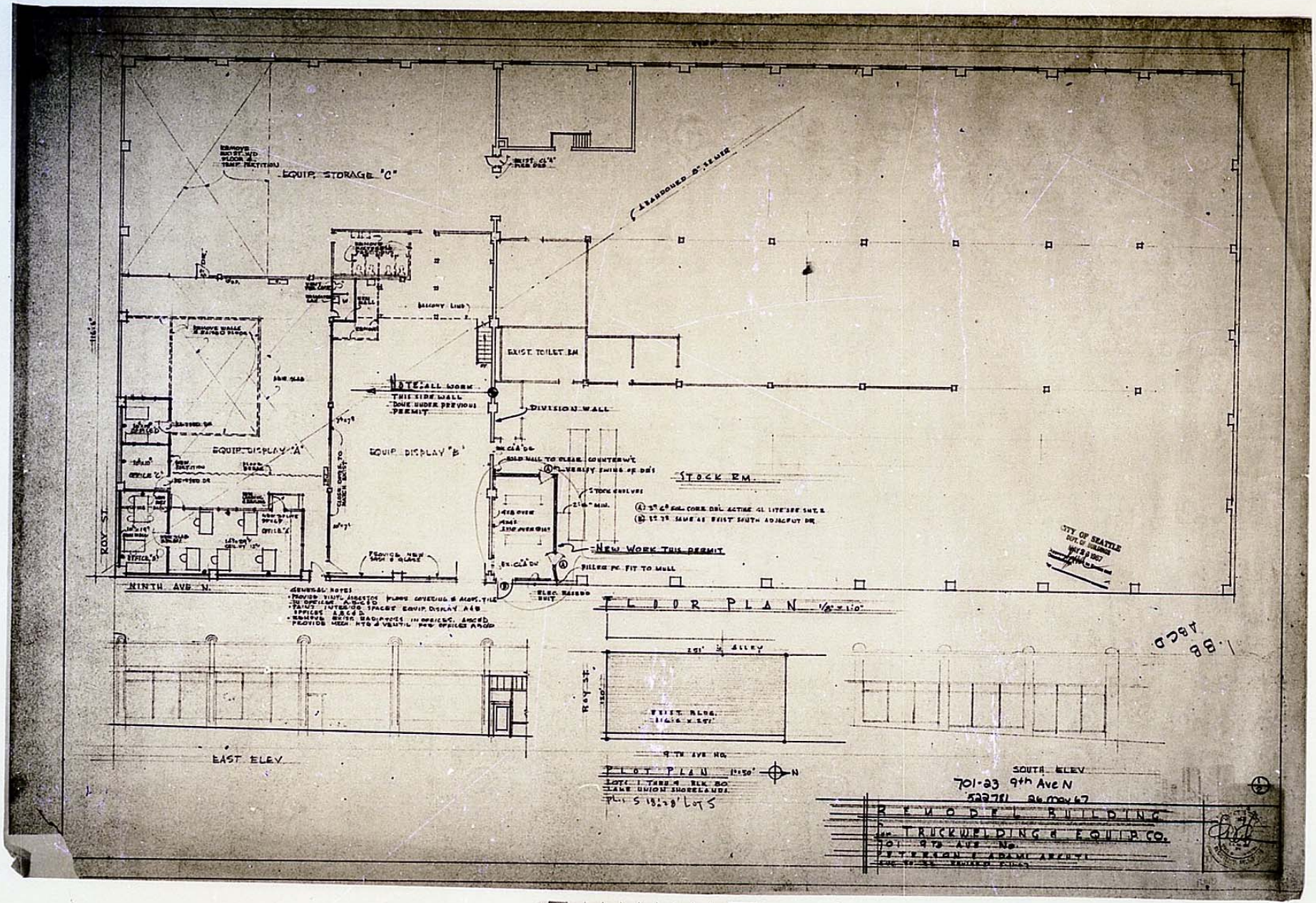
701-23 9th Ave N
427085
2 Apr 64

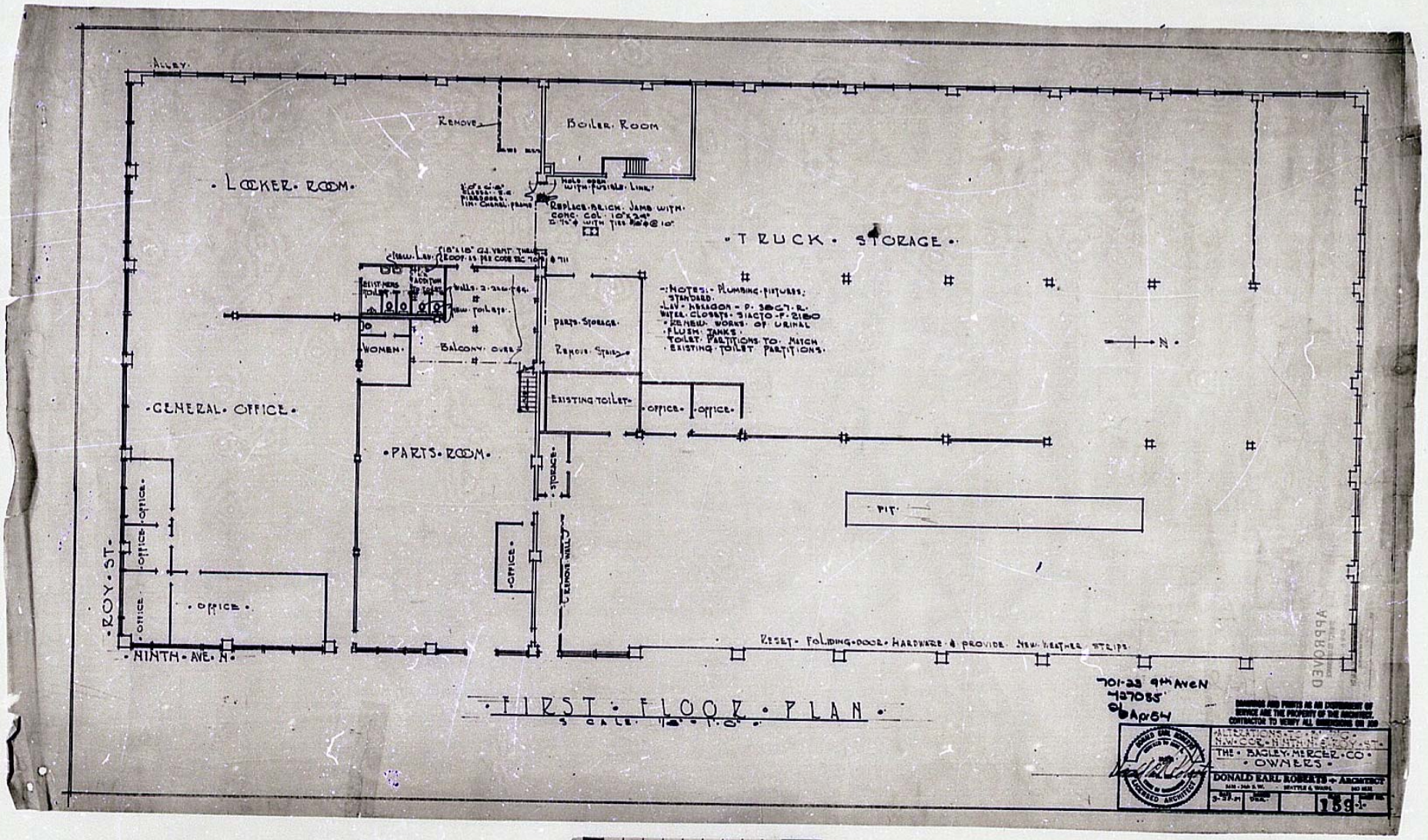
DETAIL OF DOOR SHOWING CONCRETE DOOR JAMB.

DRAWINGS AND PRINTS AS AN INSTRUMENT OF SERVICE ARE THE PROPERTY OF THE ARCHITECT. CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB

DONALD EARL ROBERTS + ARCHITECT
SEATTLE 4, WASH.

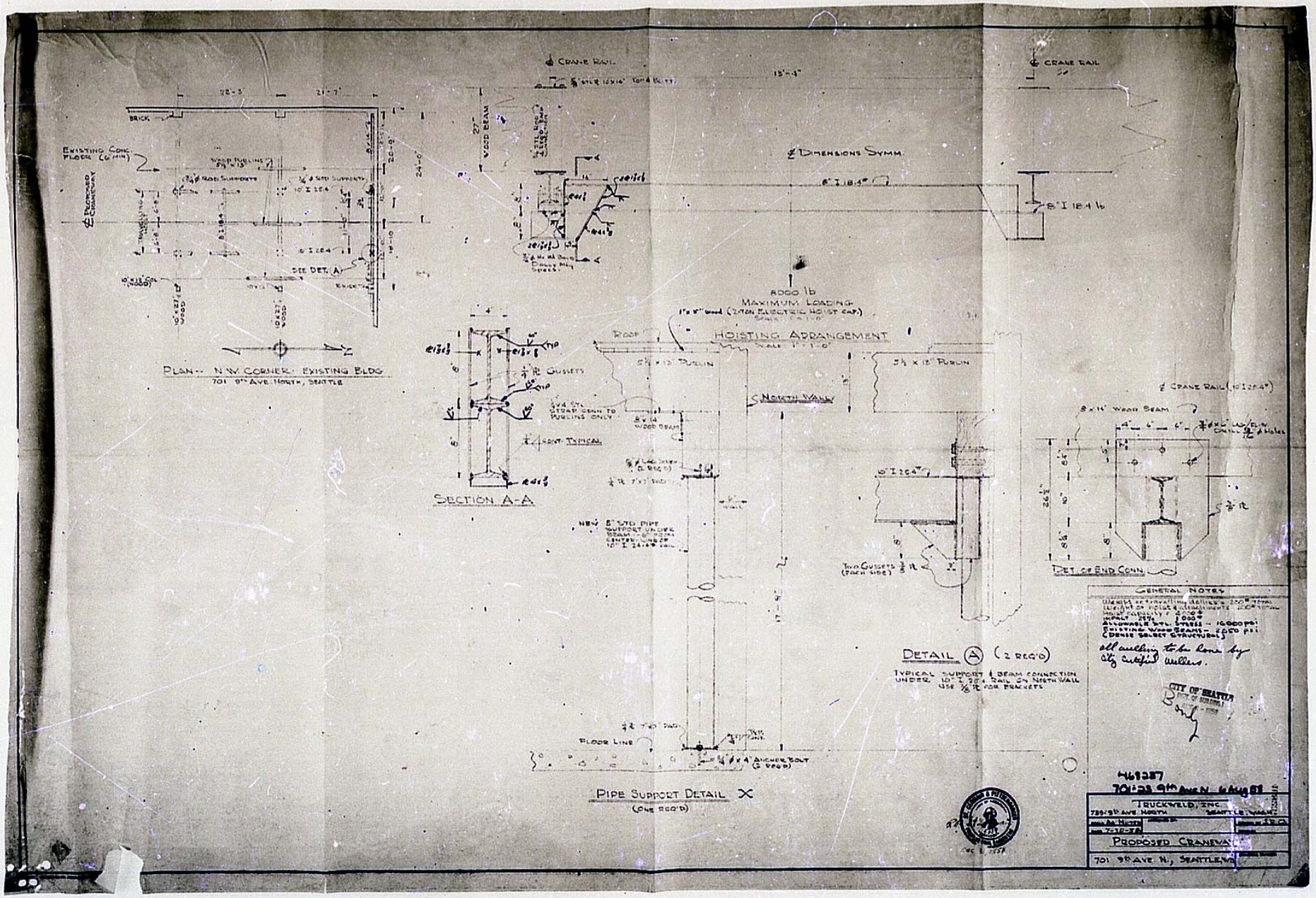
DATE 4-14-54 | DRAWN DEE | JOB NO. 159 | SHEET NO. 2

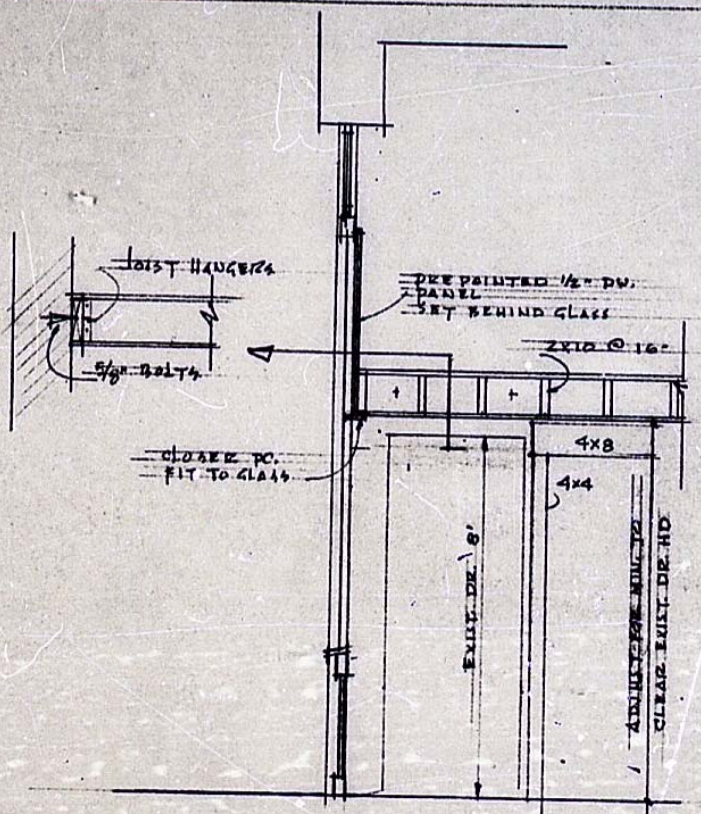

EQUIP. STORAGE "C"
ABANDONED 8" SEWER
EXIST. TOILET RM
NOTE: ALL WORK THIS SIDE WALL DONE UNDER PREVIOUS PERMIT
DIVISION WALL
EQUIP. DISPLAY "A"
EQUIP. DISPLAY "B"
STOCK RM.
NEW WORK THIS PERMIT
ROY ST.
NINTH AVE N.
GENERAL NOTES
FLOOR PLAN 1/8" = 1'-0"
EAST ELEV.
PLOT PLAN 1"=50'
SOUTH ELEV
701-23 9th Ave N
522781 26 May 67
REMODEL BUILDING
for TRUCKWELDING & EQUIP CO.
701 - 9TH AVE No.
PETERSON & ADAMS ARCH'TS



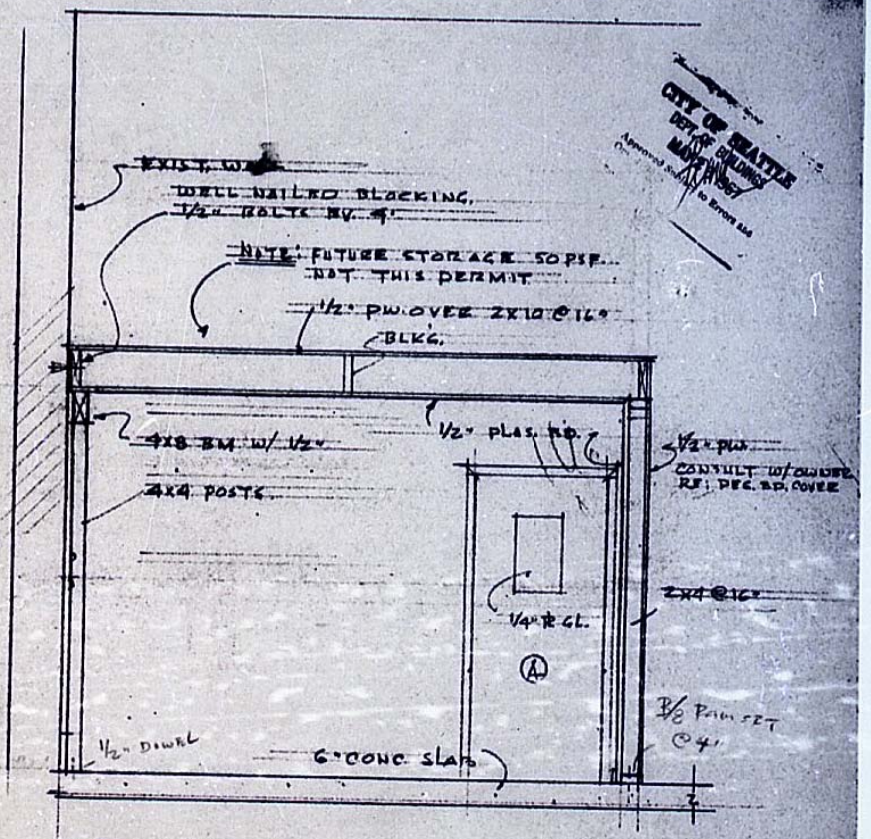
FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"


PLAN -- N.W. CORNER EXISTING BLDG
701 9TH AVE. NORTH, SEATTLE
SECTION A-A
HOISTING ARRANGEMENT
DETAIL (A) (2 REQ'D)
PIPE SUPPORT DETAIL X
(ONE REQ'D)
DET. OF END CONN.
GENERAL NOTES
TRUCKWELD, INC.
PROPOSED CRANEWAY
701 9TH AVE. N., SEATTLE, WN.
461287
701-23 9TH AVE N 6Aug81
CITY OF SEATTLE



SEC. (B) 1½"=1'0"



SEC. (A) 1½"=1'0"

LUMBER CONSTR. GRADE f 1500 PSI.

701-23 9th Ave N.

522781 26 May 67

REMODEL BUILDING

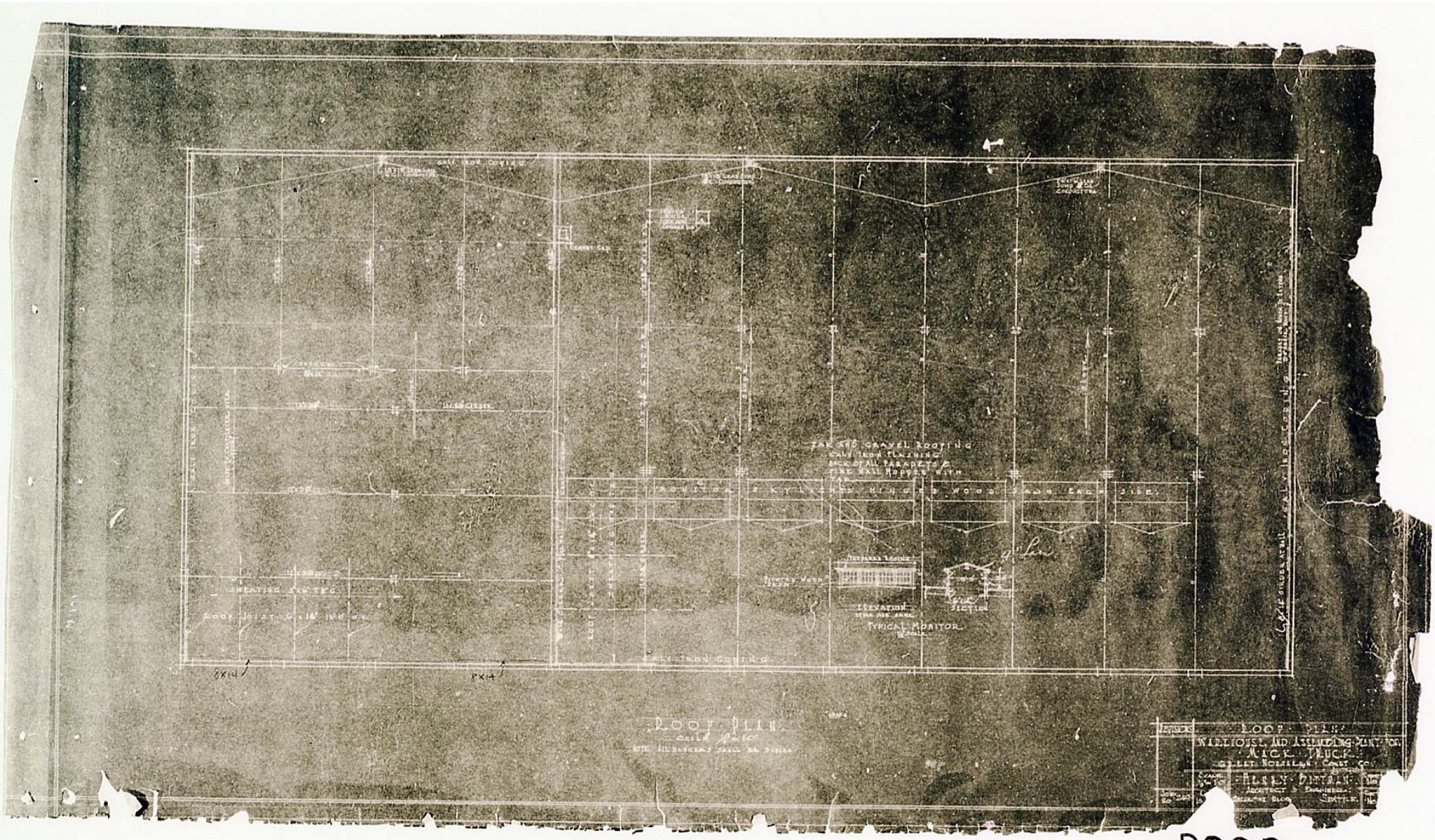
for TRUCKWELDING & EQUIP. CO.

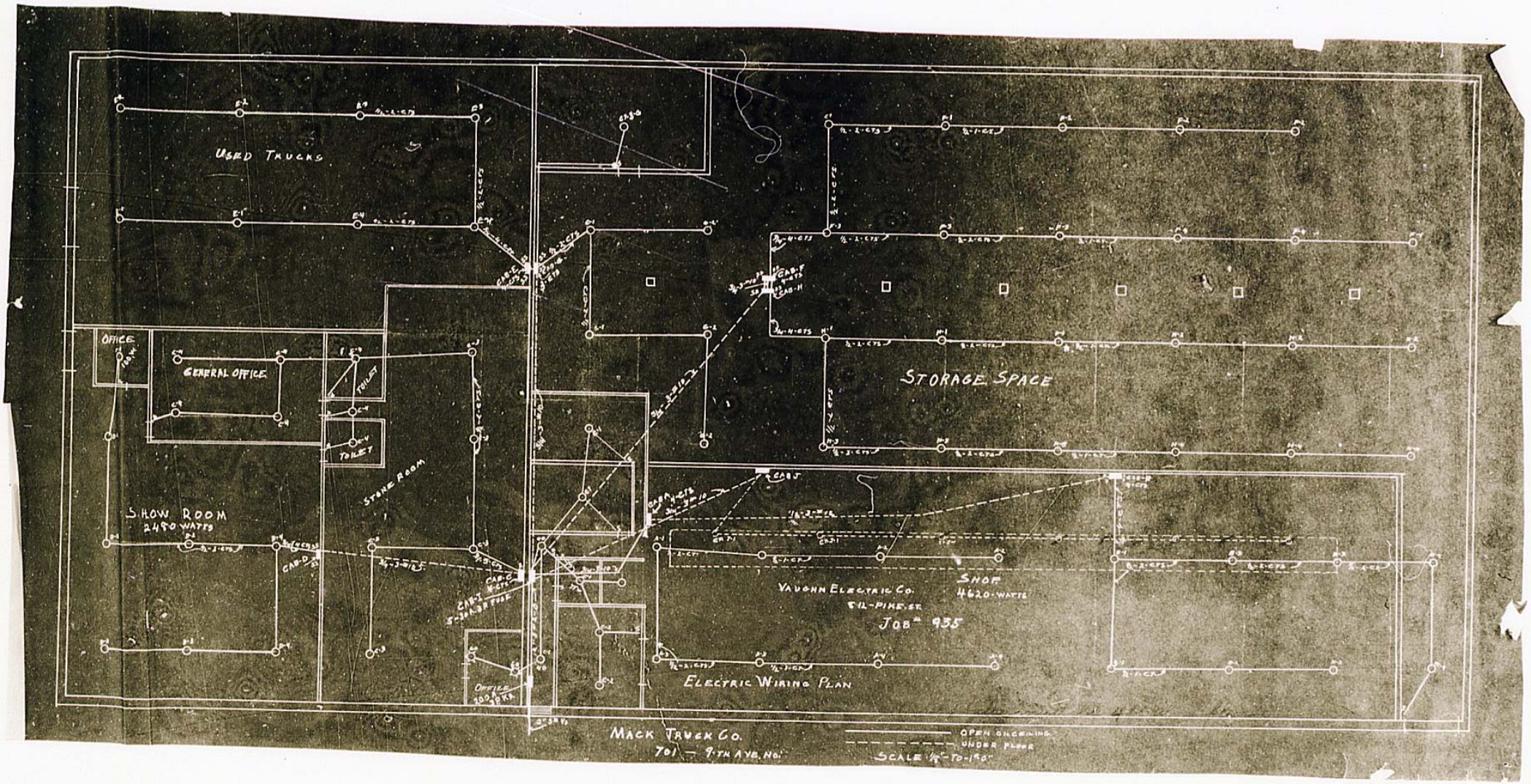
701 9TH AVE N.

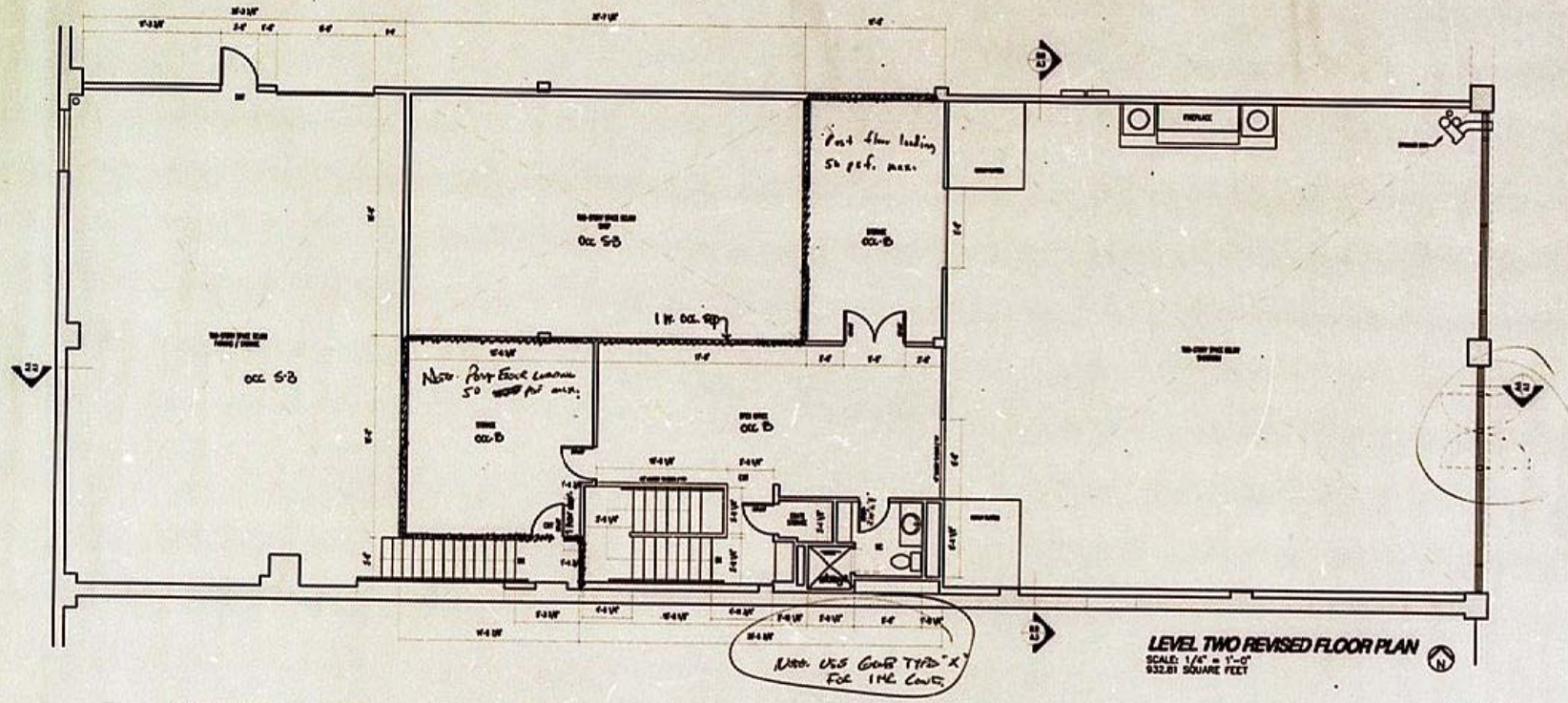
PETERSON & ADAMS ARCHTS

(2/2)

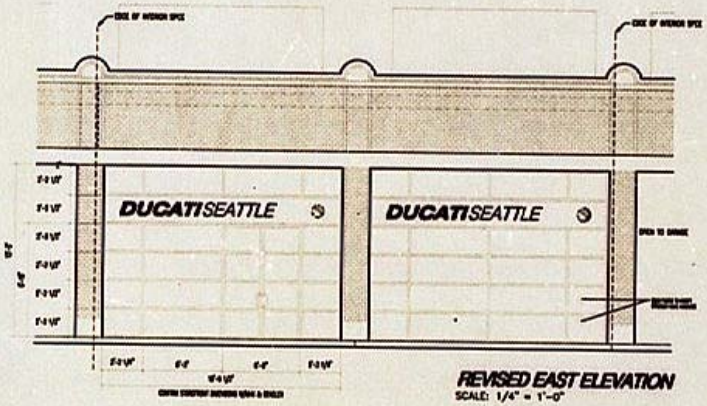
CITY OF SEATTLE
DEPT. OF BUILDINGS
MAY 29 1967
Approved Subject to Errors and


TAR AND GRAVEL ROOFING
GALV. IRON FLASHING
BACK OF ALL PARAPETS &
FIRE WALL HOPPER WITH
TYPICAL MONITOR
ROOF PLAN
POOR
ORIGINAL

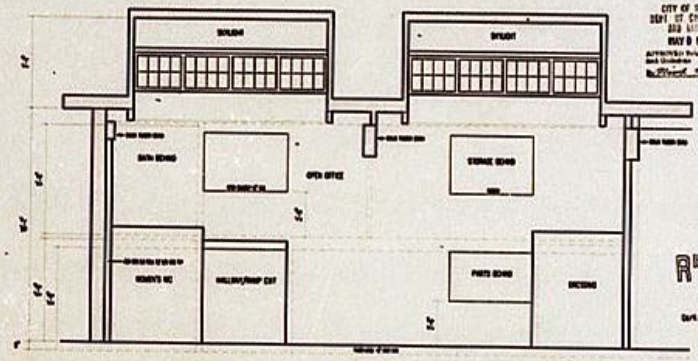

USED TRUCKS
OFFICE
GENERAL OFFICE
TOILET
TOILET
STONE ROOM
SHOW ROOM
2480 WATTS
STORAGE SPACE
SHOP
4620 WATTS
VAUGHN ELECTRIC CO.
511 PINE ST.
JOB # 935
ELECTRIC WIRING PLAN
MACK TRUCK CO.
701 — 9TH AVE. NO.
OPEN CEILING
UNDER FLOOR
SCALE 1/8" TO 1'0"



LEVEL TWO REVISED FLOOR PLAN
SCALE: 1/4" = 1'-0"
932.81 SQUARE FEET



REVISED EAST ELEVATION
SCALE: 1/4" = 1'-0"



COMPOSITE SECTION B.B
SCALE: 1/4" = 1'-0"

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAY 0 5 1999

RECEIVED
MAR 24 1999

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAR 24 1999
Approved
Subject to Errors and Omissions

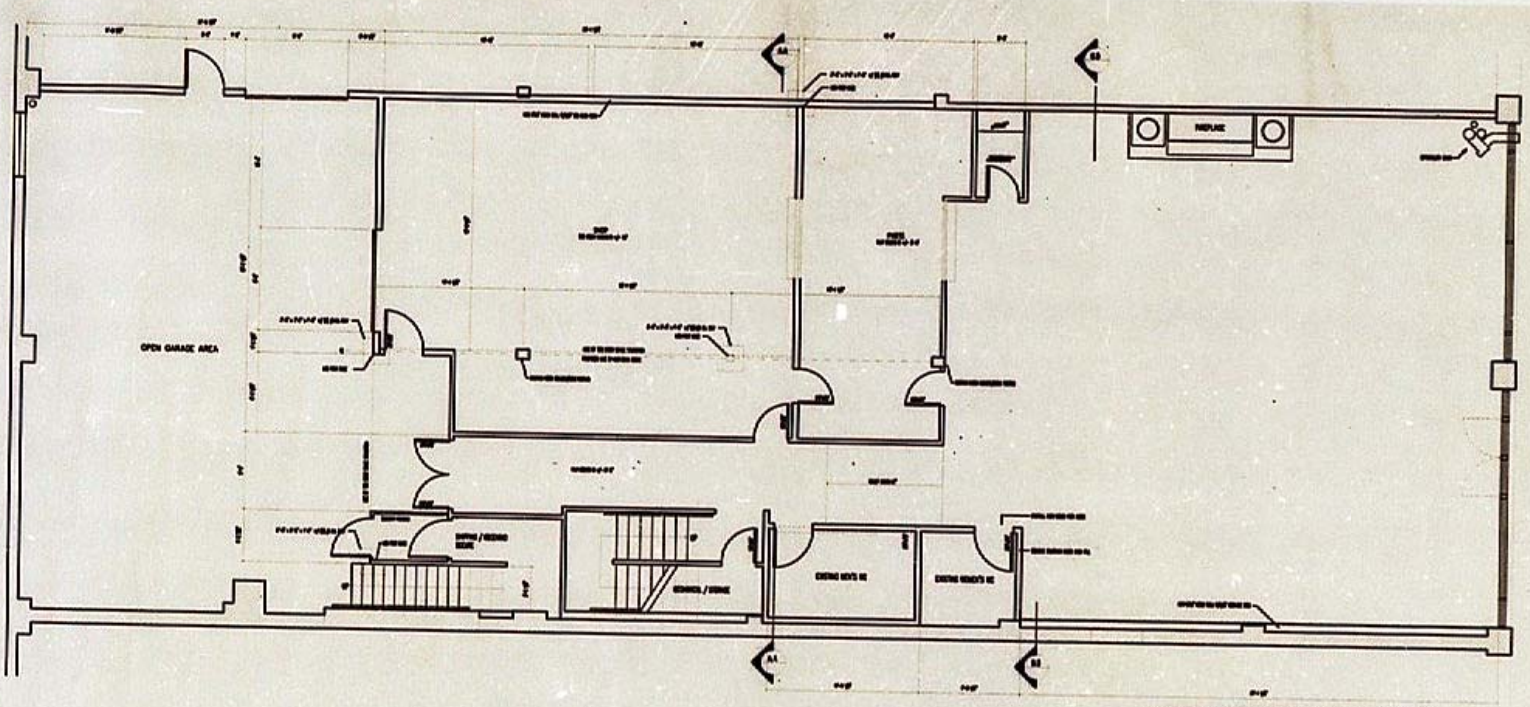
MARTIN HENRY KAPLAN
M·H·K
ARCHITECTURE

DUCATISEATTLE
711 9th Avenue North, Seattle Washington 98109

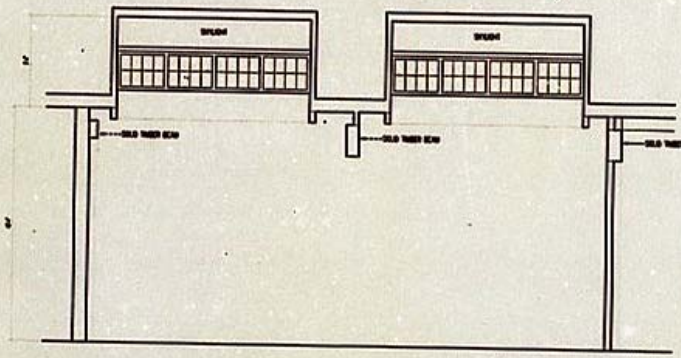
NO	DESCRIPTION	DATE
9	CONST. DOC 1	03.20.99
8	STRUCTURAL FINAL	03.18.99
7	STRUCTURAL 1	03.17.99
6	DCS DEVELOP 3	03.16.99
5	DCS DEVELOP 2	03.14.99
4	DCS DEVELOP 1	03.07.99
3	PRE SCHEMATICS 3	02.24.99
2	PRE SCHEMATICS 2	02.14.99
1	PRE SCHEMATICS 1	02.07.99

DRAWN BY: MHK
SCALE: 1/4" = 1'-0"

A.3



LEVEL ONE REVISED FLOOR PLAN
SCALE: 1/4" = 1'-0"
2116 FINISHED SQUARE FEET
1130 UNFINISHED SQUARE FEET SHOP / PARTS
1336 UNFINISHED EXISTING PARKING



EXISTING SECTION
SCALE: 1/4" = 1'-0"

RECEIVED

MARTIN HENRY KAPLAN
M·H·K
ARCHITECTURE

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REGISTERED ARCHITECT

DUCATI SEATTLE
711 9th Avenue North, Seattle Washington 98109

NO	DESCRIPTION	DATE
9	CONST DOC 1	03.20.99
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7	STRUCTURAL 1	03.17.99
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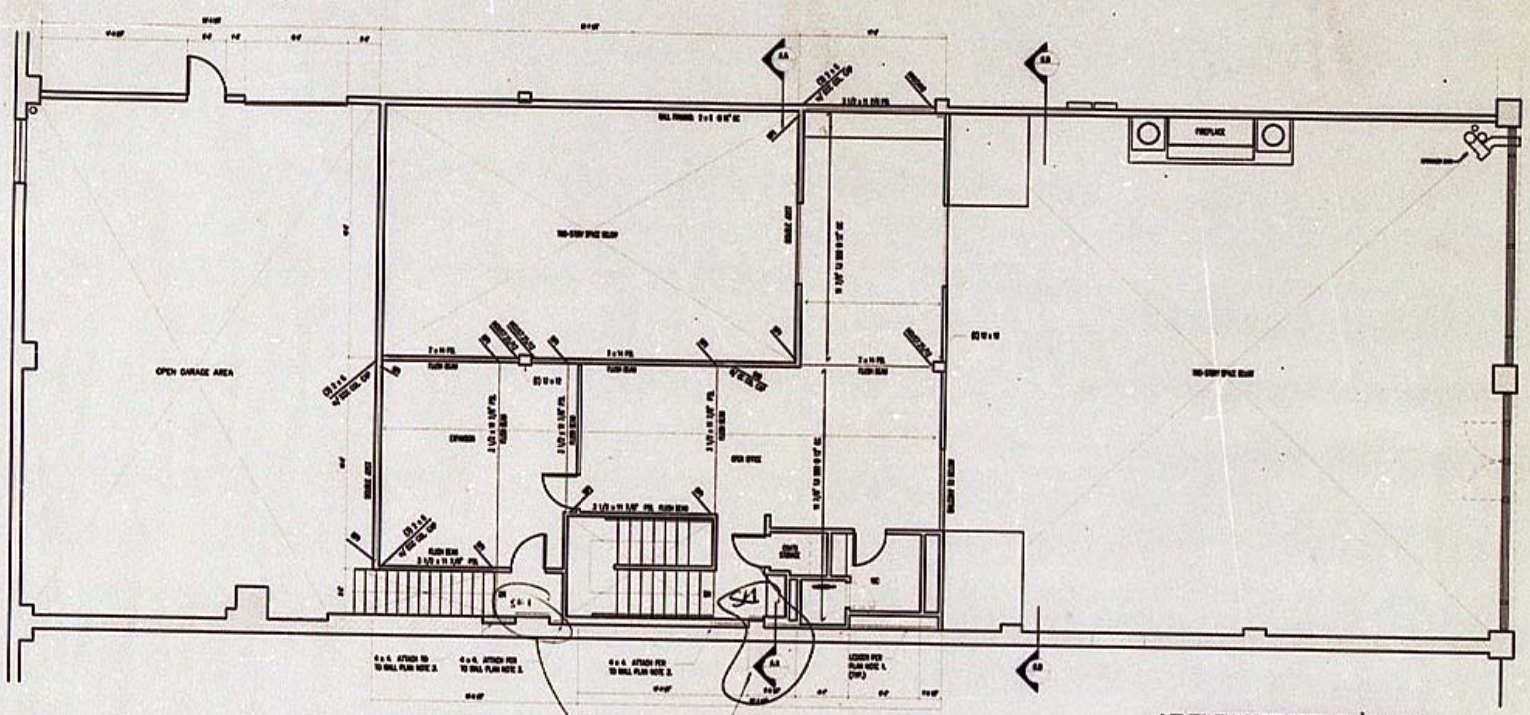
4	DES DEVELOP 1	03.07.99
3	PRE SCHEMATICS	02.24.99
2	PRE SCHEMATICS 2	02.14.99
1	PRE SCHEMATICS 1	02.07.99

DRAWN BY: MHK
SCALE: 1/4" = 1'-0"

S.1



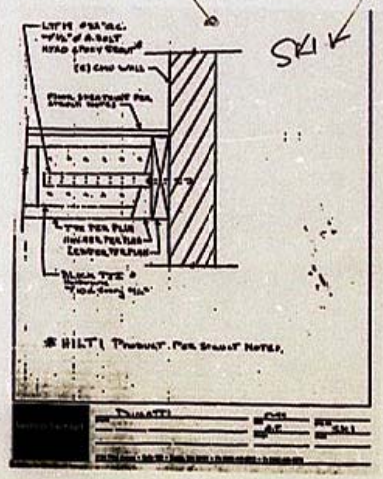
LEVEL TWO REVISED FLOOR PLAN

SCALE: 1/4" = 1'-0"
932.81 SQUARE FEET

PLAN NOTES:

1. LEDGER SHALL BE 3 1/2 X 14 PSL. ATTACH TO CMU WALL w/ (2) 5/8" DIAM. HIT HY20 EPOXY GROUTED BOLTS @ 18" OC. HANG JOIST w/ HANGER PER STRUCTURAL NOTES.
2. ATTACH POST TO CMU WALL w/ (1) 5/8" DIAM. HIT HY20 EPOXY GROUTED BOLTS @ 24" OC. VERT. (5) BOLTS MIN.

SPECIAL INSPECTION REQUIRED



CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAY 0 5 1999

RECEIVED
MAR 2 4 1999
DEPT OF CONSTRUCTION & LAND USE

CITY OF SEATTLE
DEPT OF CONSTRUCTION AND LAND USE
MAR 24 1999
Approved
Subject to Errors and Omissions

MARTIN HENRY KAPLAN
M·H·K ARCHITECTURE

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REGISTERED ARCHITECT
MARTIN HENRY KAPLAN
STATE OF WASHINGTON

DUCATI SEATTLE

711 9th Avenue North, Seattle Washington 98109

NO	DESCRIPTION	DATE
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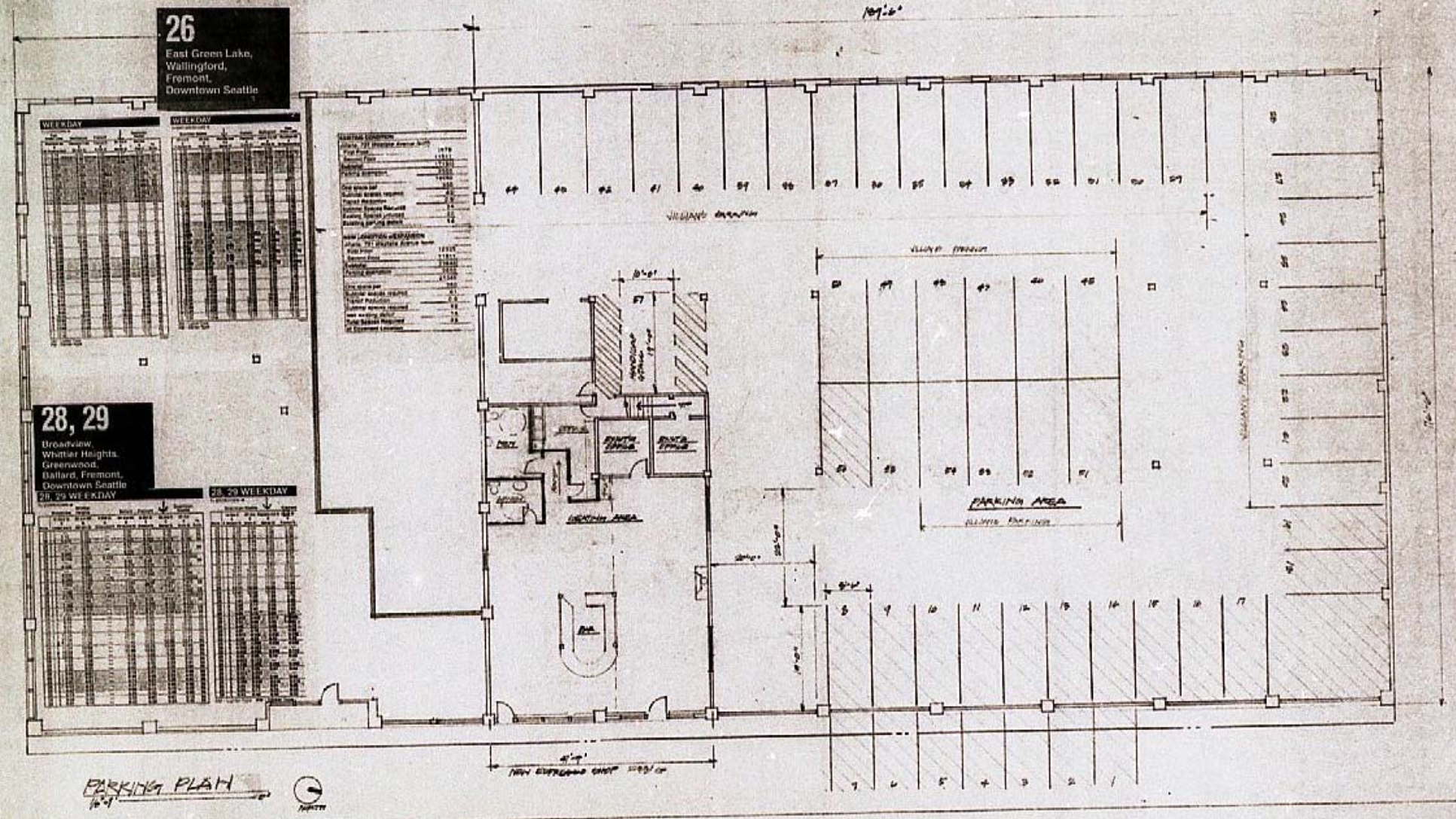
5	DES DEVELOP 2	03.14.99
4	DES DEVELOP 1	03.07.99
3	PRE SCHEMATICS 3	02.24.99
2	PRE SCHEMATICS 2	02.14.99
1	PRE SCHEMATICS 1	02.07.99

DRAWN BY: MHK
SCALE: 1/4" = 1'-0"

S.2

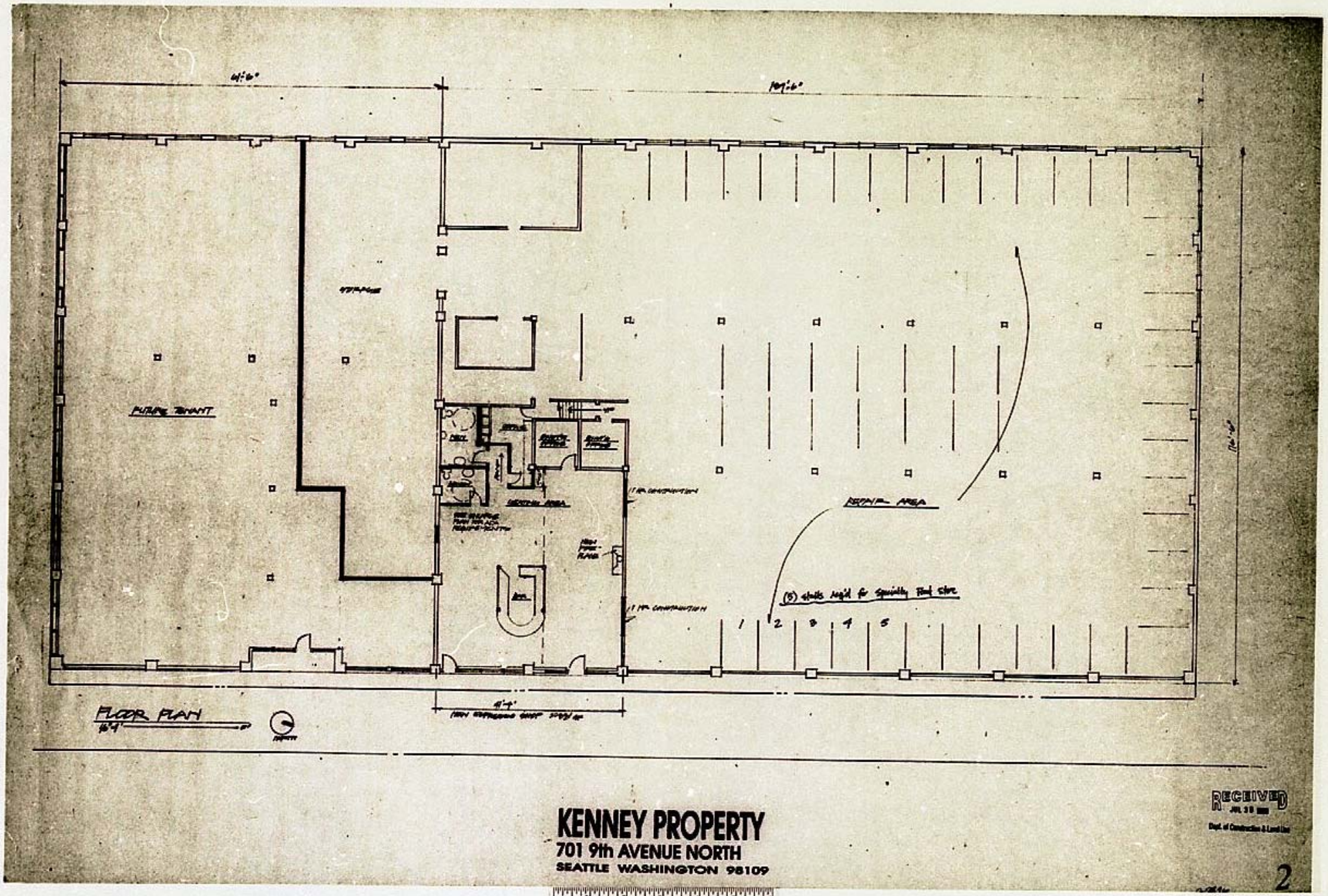


LEGAL: PLAT OF LOT 1-2-3-4-5 LAKE UNION SHORE LANDS ADD IN S.E. ¼ OF S.W. ¼ OF SEC. 25 T. 25 N. R. 4 E. W.M. ALSO OF ALLEY & VAC. ST.

RECEIVED
DEC 19 1997
Dept. of Construction & Land Use

KENNEY PROPERTY

721 9th AVENUE NORTH
SEATTLE WASHINGTON 98109



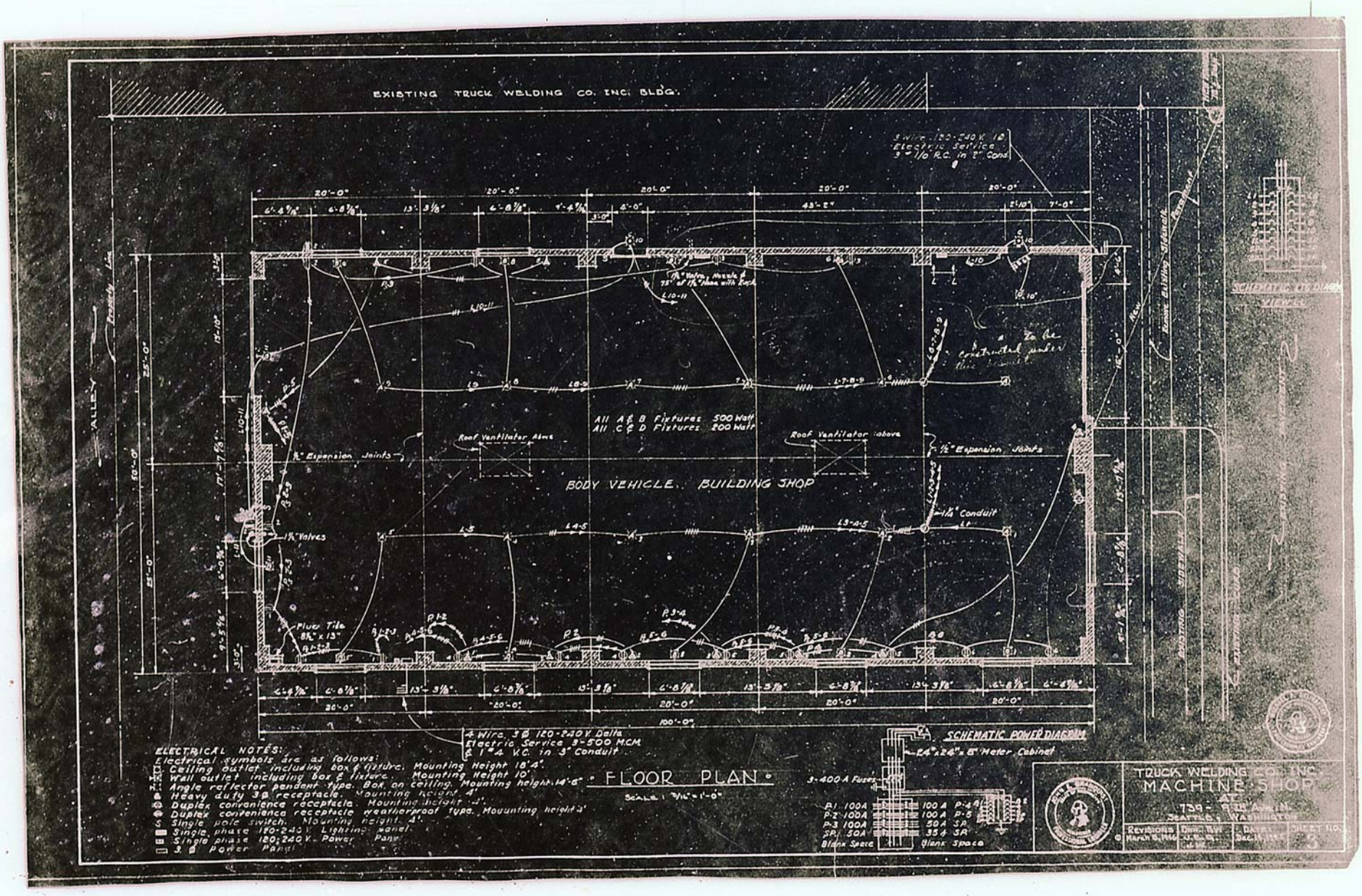
KENNEY PROPERTY

701 9th AVENUE NORTH

SEATTLE WASHINGTON 98109

RECEIVED

2

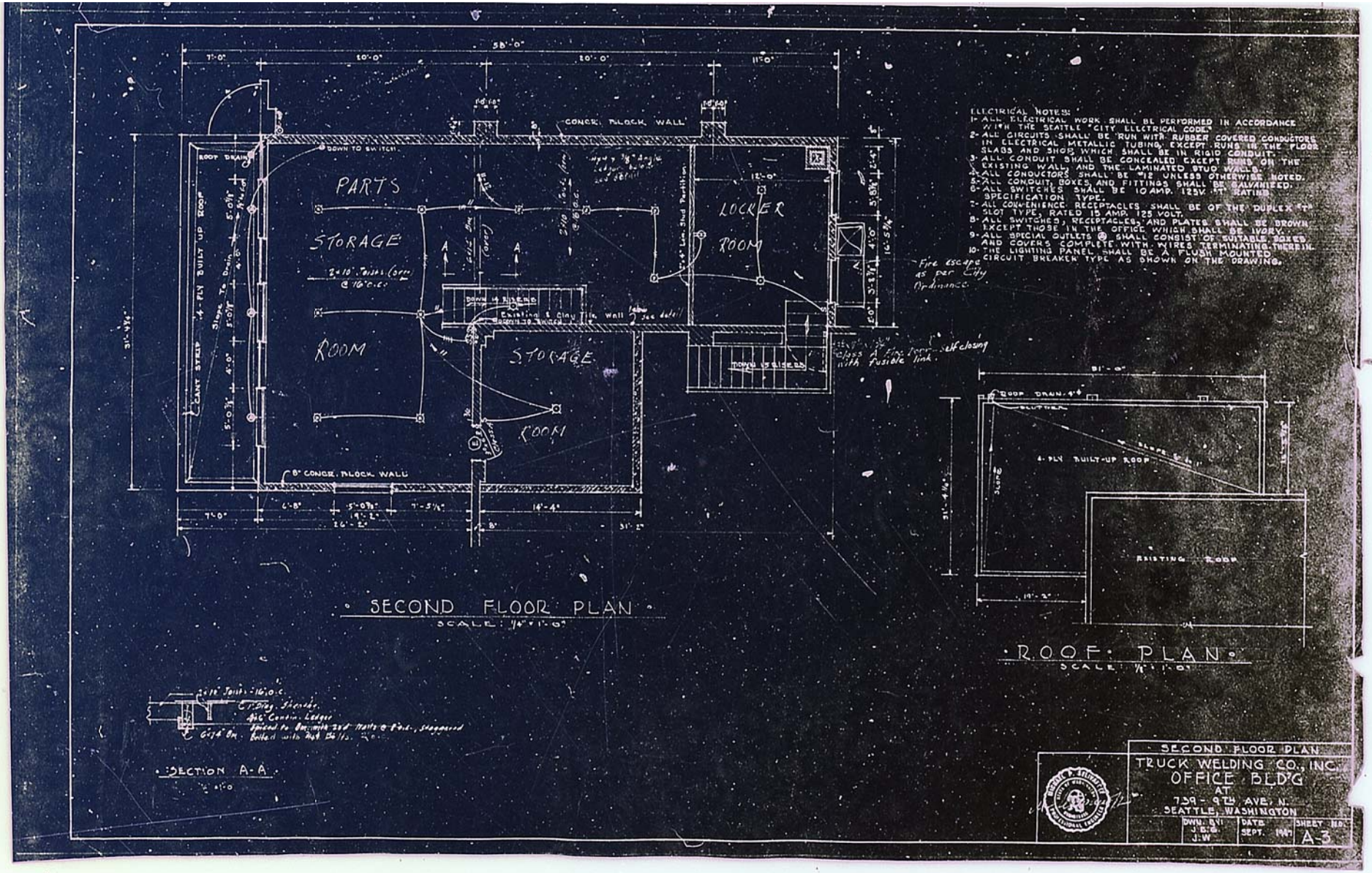


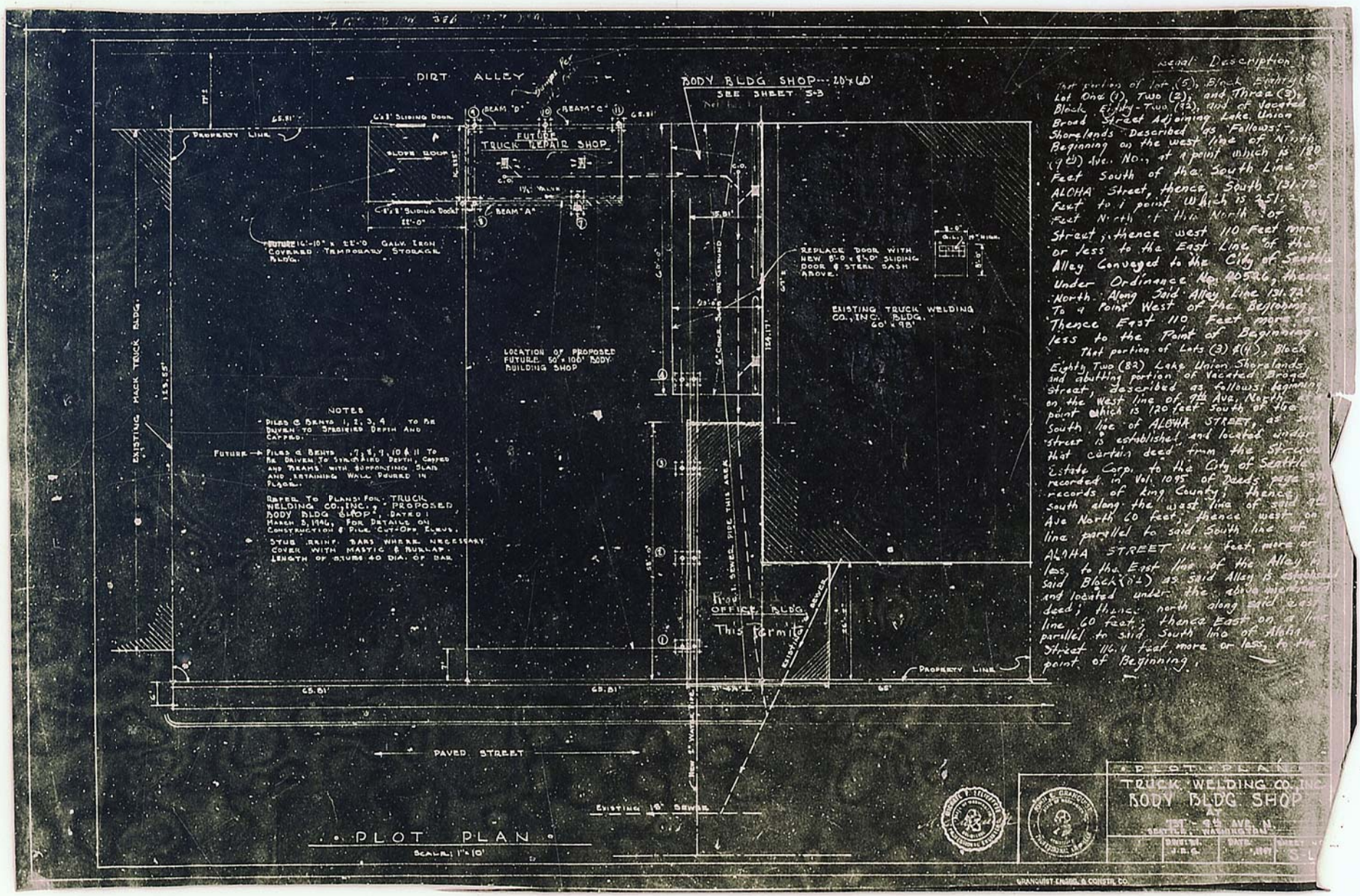
FLOOR PLAN

ELECTRICAL NOTES:
Electrical symbols are as follows:
- Ceiling outlet including box & fixture. Mounting Height 18'-4".
- Wall outlet including Box & fixture. Mounting Height 10'.
- Angle reflector pendent type. Box on ceiling. Mounting height 14'-6".
- Heavy duty 3Ø receptacle. Mounting height 4'.
- Duplex convenience receptacle. Mounting height 3'.
- Duplex convenience receptacle weatherproof type. Mounting height 3'
- Single pole switch. Mounting height 4'.
- Single phase 120-240 V. Lighting panel.
- Single phase 120-240 V. Power Panel.
- 3 Ø Power Panel.

TRUCK WELDING CO. INC.
MACHINE SHOP
AT
739 - 9TH AVE. N.
SEATTLE, WASHINGTON

REVISIONS	DRAWN BY	DATE	SHEET NO.
March 8, 1946			3


PARTS
STORAGE
ROOM
LOCKER
ROOM
STORAGE
ROOM
CONCR. BLOCK WALL
8" CONCR. BLOCK WALL
DOWN TO SWITCH
ROOF DRAIN
4-PLY BUILT UP ROOF
Existing 8" Clay Tile Wall
Fire escape as per City Ordinance
ELECTRICAL NOTES:
1- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SEATTLE CITY ELECTRICAL CODE.
2- ALL CIRCUITS SHALL BE RUN WITH RUBBER COVERED CONDUCTORS IN ELECTRICAL METALLIC TUBING, EXCEPT RUNS IN THE FLOOR SLABS AND SHOE WHICH SHALL BE IN RIGID CONDUIT.
3- ALL CONDUIT SHALL BE CONCEALED EXCEPT RUNS ON THE EXISTING WALL AND THE LAMINATED STUD WALLS.
4- ALL CONDUCTORS SHALL BE #12 UNLESS OTHERWISE NOTED.
5- ALL CONDUIT, BOXES AND FITTINGS SHALL BE GALVANIZED.
6- ALL SWITCHES SHALL BE 10 AMP. 125V. "T" RATING SPECIFICATION TYPE.
7- ALL CONVENIENCE RECEPTACLES SHALL BE OF THE DUPLEX "T" SLOT TYPE, RATED 15 AMP. 125 VOLT.
8- ALL SWITCHES, RECEPTACLES AND PLATES SHALL BE BROWN EXCEPT THOSE IN THE OFFICE WHICH SHALL BE IVORY.
9- ALL SPECIAL OUTLETS @ SHALL CONSIST OF SUITABLE BOXES AND COVERS COMPLETE WITH WIRES TERMINATING THEREIN.
10- THE LIGHTING PANEL SHALL BE A FLUSH MOUNTED CIRCUIT BREAKER TYPE AS SHOWN ON THE DRAWING.
SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"
ROOF PLAN
SCALE 1/8" = 1'-0"
SECTION A-A
SECOND FLOOR PLAN
TRUCK WELDING CO., INC.
OFFICE BLD'G
AT
739 - 9TH AVE. N.
SEATTLE, WASHINGTON
DWN. BY: J.E.G. J.W.
DATE: SEPT. 1947
SHEET NO. A-3

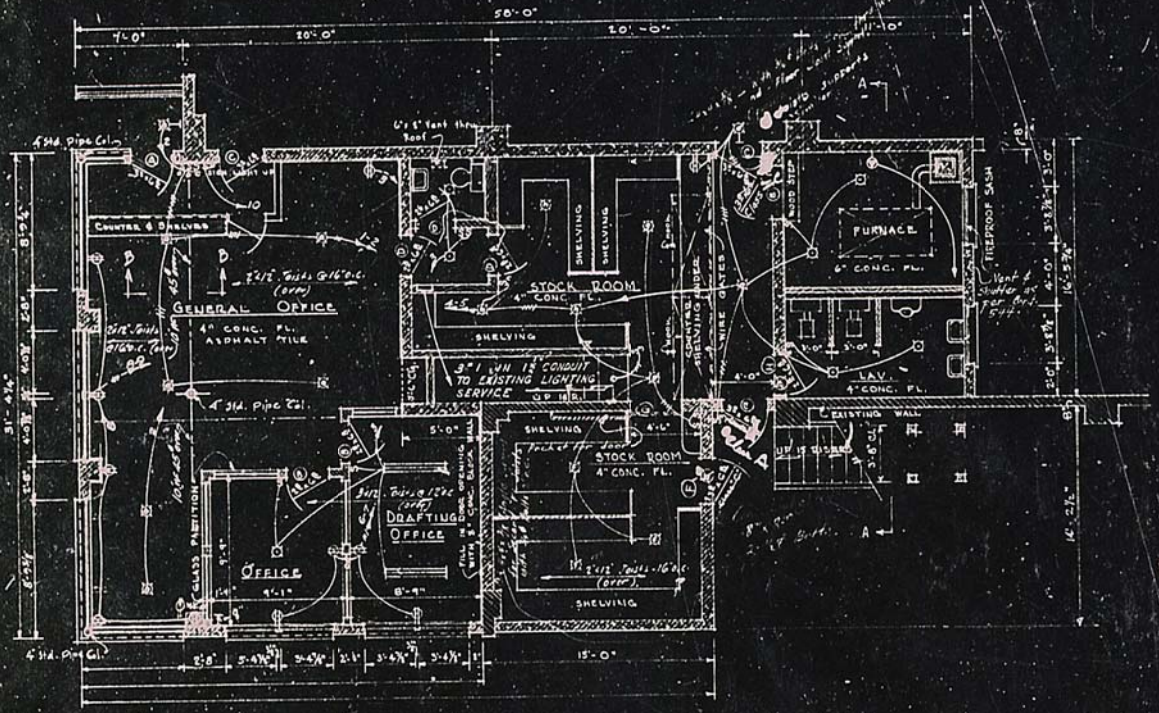


Legal Description

That portion of Lot (5), Block Eighty (80), Lot One (1), Two (2), and Three (3), Block Eighty-Two (82), and of Vacated Broad Street Adjoining Lake Union Shorelands Described as Follows:- Beginning on the west line of Ninth (9th) Ave. North, at a point which is 180 Feet South of the South Line of ALOHA Street, thence South 131.72 Feet to a point Which is 251.72 Feet North of the North line of Roy Street; thence west 110 Feet more or less to the East Line of the Alley Conveyed to the City of Seattle Under Ordinance No. 40526, thence North Along Said Alley Line 131.72' To a Point West of the Beginning, Thence East 110 Feet more or less to the Point of Beginning;

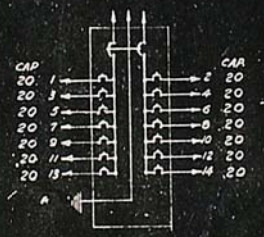
That portion of Lots (3) & (4), Block Eighty Two (82) Lake Union Shorelands and abutting portion of Vacated Broad Street, described as follows: Beginning on the West line of 9th Ave. North at a point which is 120 feet South of the South line of ALOHA STREET, as said street is established and located under that certain deed from the Stevens Estate Corp. to the City of Seattle recorded in Vol. 1095 of Deeds page 5 records of King County; thence south along the west line of said 9th Ave North 60 feet, thence west on a line parallel to said South line of ALOHA STREET 116.4 feet, more or less, to the East line of the Alley in said Block (82) as said Alley is established and located under the above mentioned deed; thence north along said east line 60 feet; thence East on a line parallel to said South line of Aloha Street 116.4 feet more or less, to the point of Beginning;

BRANGUSET ENGINEERING & CONSTR. CO.



FIRST FLOOR PLAN

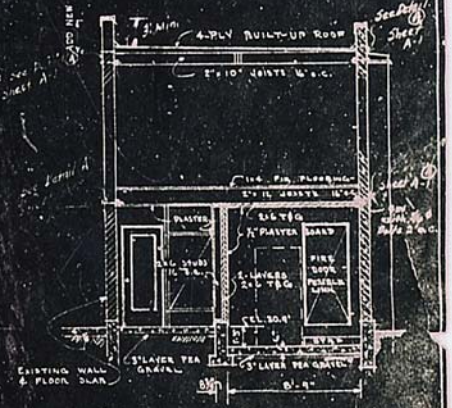
SCALE: 1/4" = 1'-0"



100 A. 3W. 120-240V. 1Ø. MULTI BREAKER PANEL FLUSH MOUNTING

DOOR SCHEDULE

TYPE	NO. OF DOORS	WIDTH	HEIGHT	THICKNESS	REMARKS
A		3'-0"	6'-8"	1 3/4"	WOOD - GLAZED - SEE ELEVATION
B		2'-8"	6'-0"	1 3/8"	WOOD - GLAZED - SEE DETAIL
C		3'-0"	6'-8"	1 3/8"	WOOD - WIRE M. GLAZED - SEE ELEV.
D		2'-8"	6'-8"	1 3/8"	WOOD - 1 PANEL
E		3'-0"	6'-8"	1 3/4"	FIRE DOOR - GLASS - Self Closing
F		3'-0"	6'-8"	1 3/4"	Dutch Door - WOOD
G		2'-6"	6'-8"	1 3/4"	Fire Door - Class 'A'
H		2'-8"	6'-8"	1 3/8"	WOOD - 1 Panel, 2 Lt



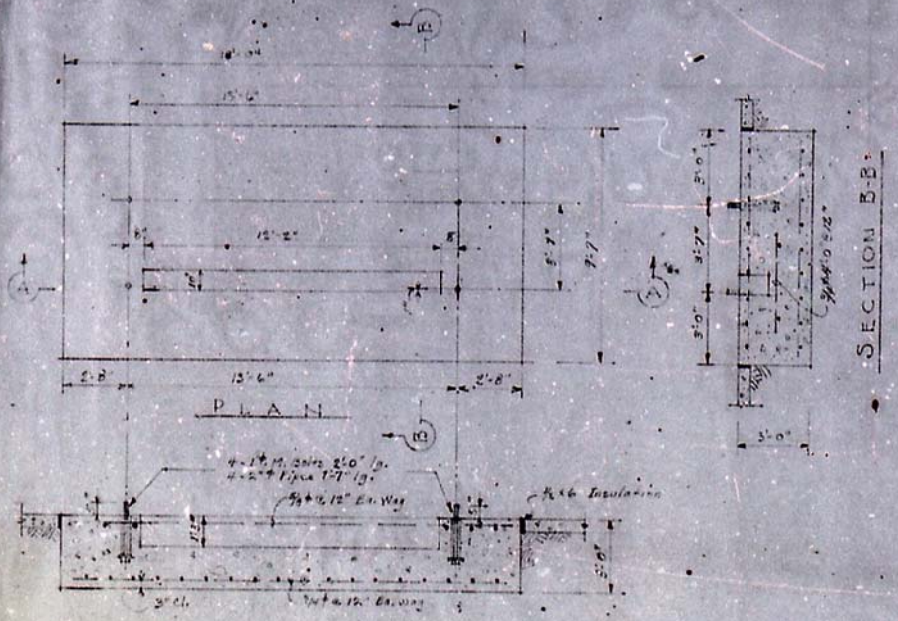
SECTION A-A

SCALE: 1/4" = 1'-0"

FIRST FLOOR PLAN

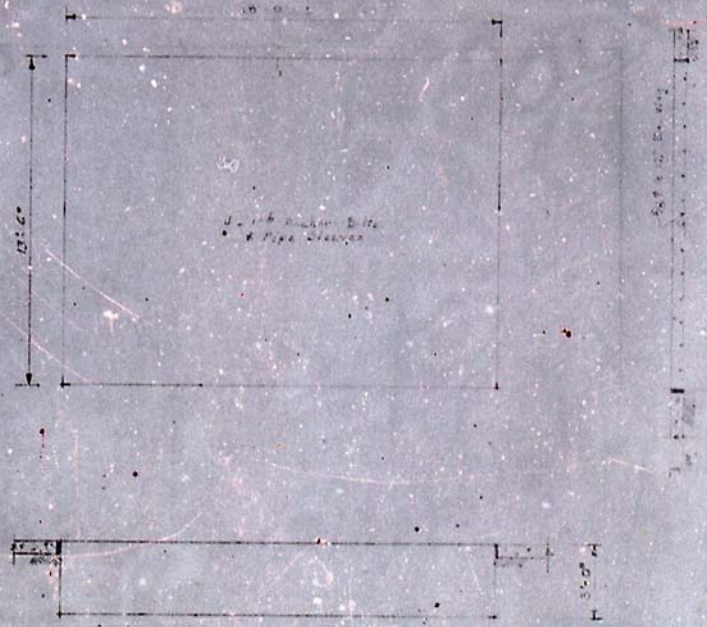
TRUCK WELDING CO., INC.
OFFICE BLDG
AT
739 - 9TH AVE. N.
SEATTLE, WASHINGTON

DWN BY:	DATE:	SHEET NO.
J.E.G. J.W.	SEPT. 3, 1947	A-2



FOUNDATION FOR BRAKE # 512-D

SCALE: 1/8" = 1'-0"

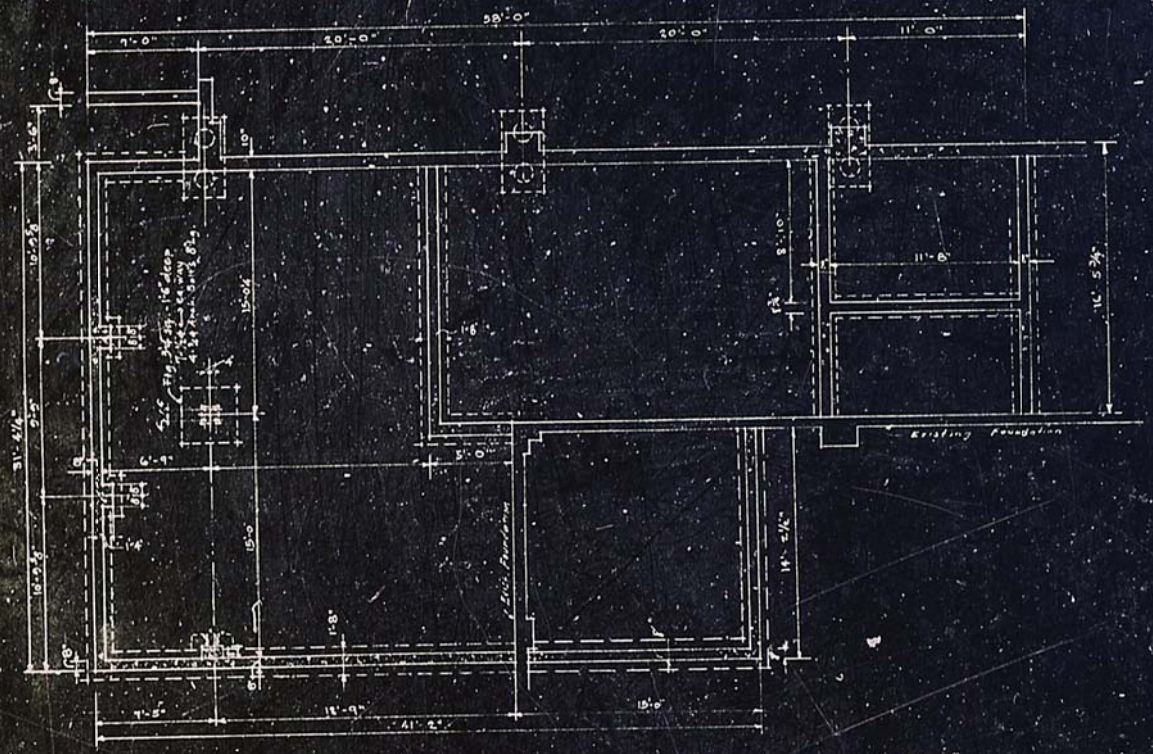


FOUNDATION FOR SHEAR # 251Z

SCALE: 1/8" = 1'-0"

MACHINERY FOUNDATIONS
BODY VEHICLE BUILDING SHOP
FOR
TRUCK WELDING & EQUIPMENT CO.
751 - 9th Ave. No.
Seattle, Washington

Revisions | Date | By | Dates | Sheet No. 7



FOUNDATION PLAN

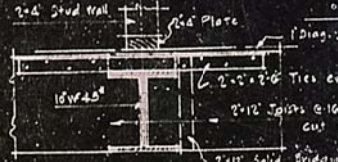
SCALE: 1/4" = 1'-0"

GENERAL NOTES

Concrete f'c = 1215 - Unsupervised - fc = 1620 psi, fc = 560 psi
All wall footings to have 2-½" dowels, 40d in bottom, looped for splices. Floor Slab to have 6"x6" #10 Ga. mesh reinforcing.
Footings designed for soil bearing of 4000 lbs. per sq. ft.
Structural Steel Stress fs = 18,000 psi, welding Superintendent.
Concrete Tile - Class A Concrete Blocks.
Wood Joists & Beams floor Stress - 1200 psi.

TOP VIEW

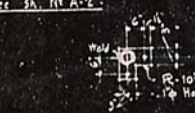
DETAILS OF PIPE COL. CONNECTIONS



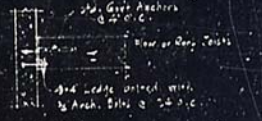
SECTION B-B AT 2ND FLOOR

See Sh. No. A-2

Note:- 10"x8"x45° Brs. to have 6" Bearing on Wall & both ends



DETAIL OF TOP & BOTT. BEARING PL. FOR 4" STD. PIPE COLS AT CORNERS



DETAIL OF JOIST FRAMING INTO MASONRY WALLS

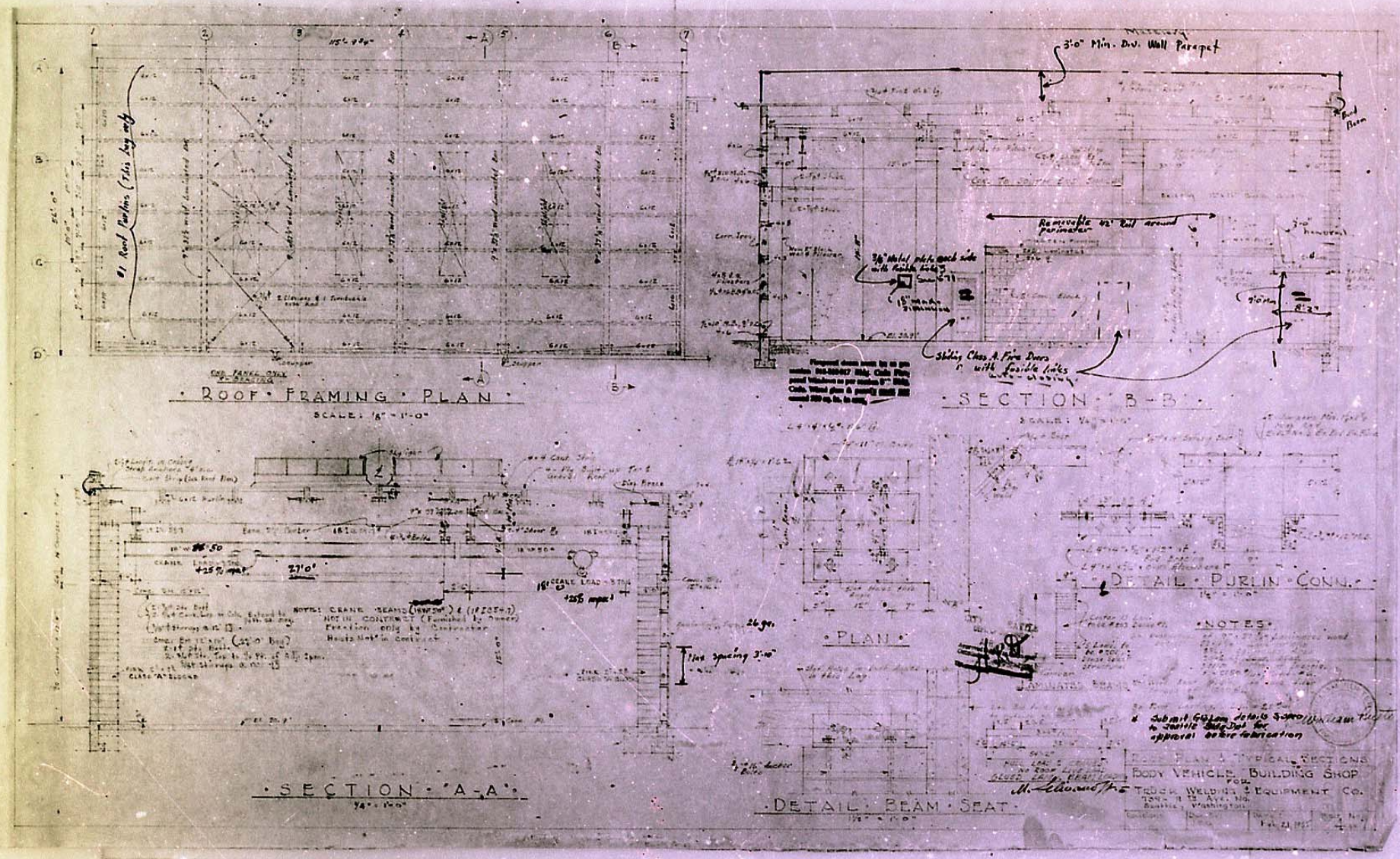
A

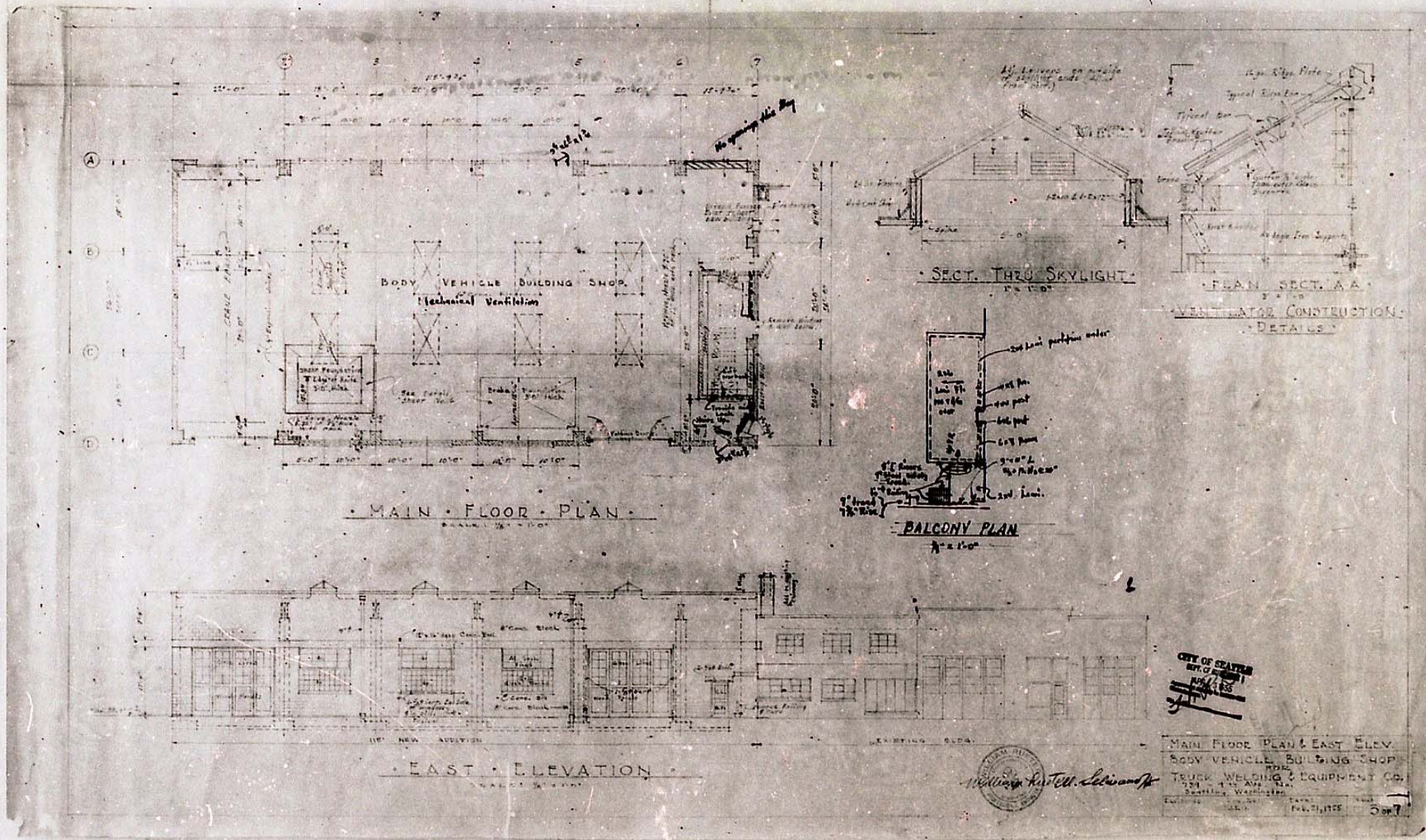
15 Dec 47

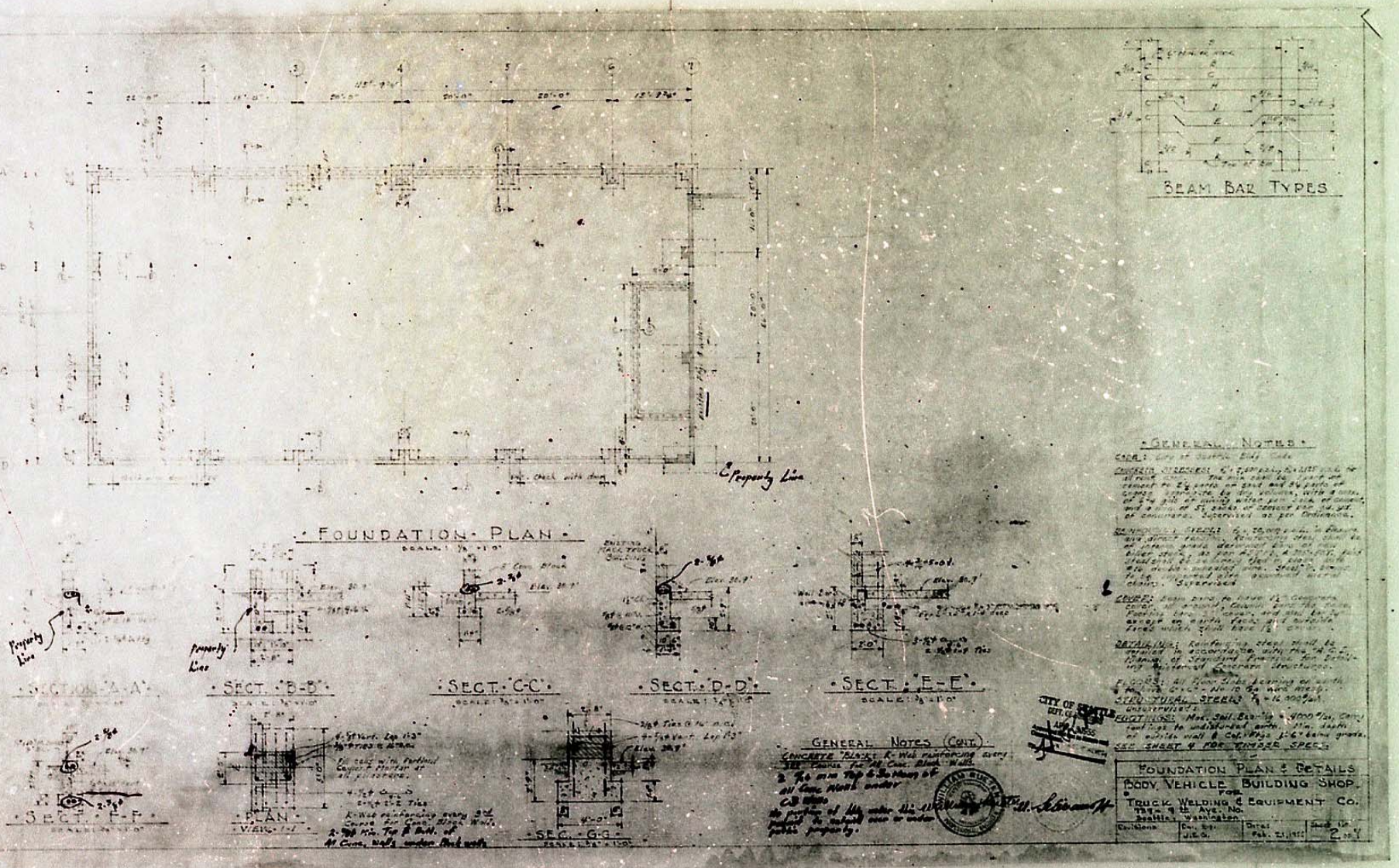
FOUNDATION PLAN

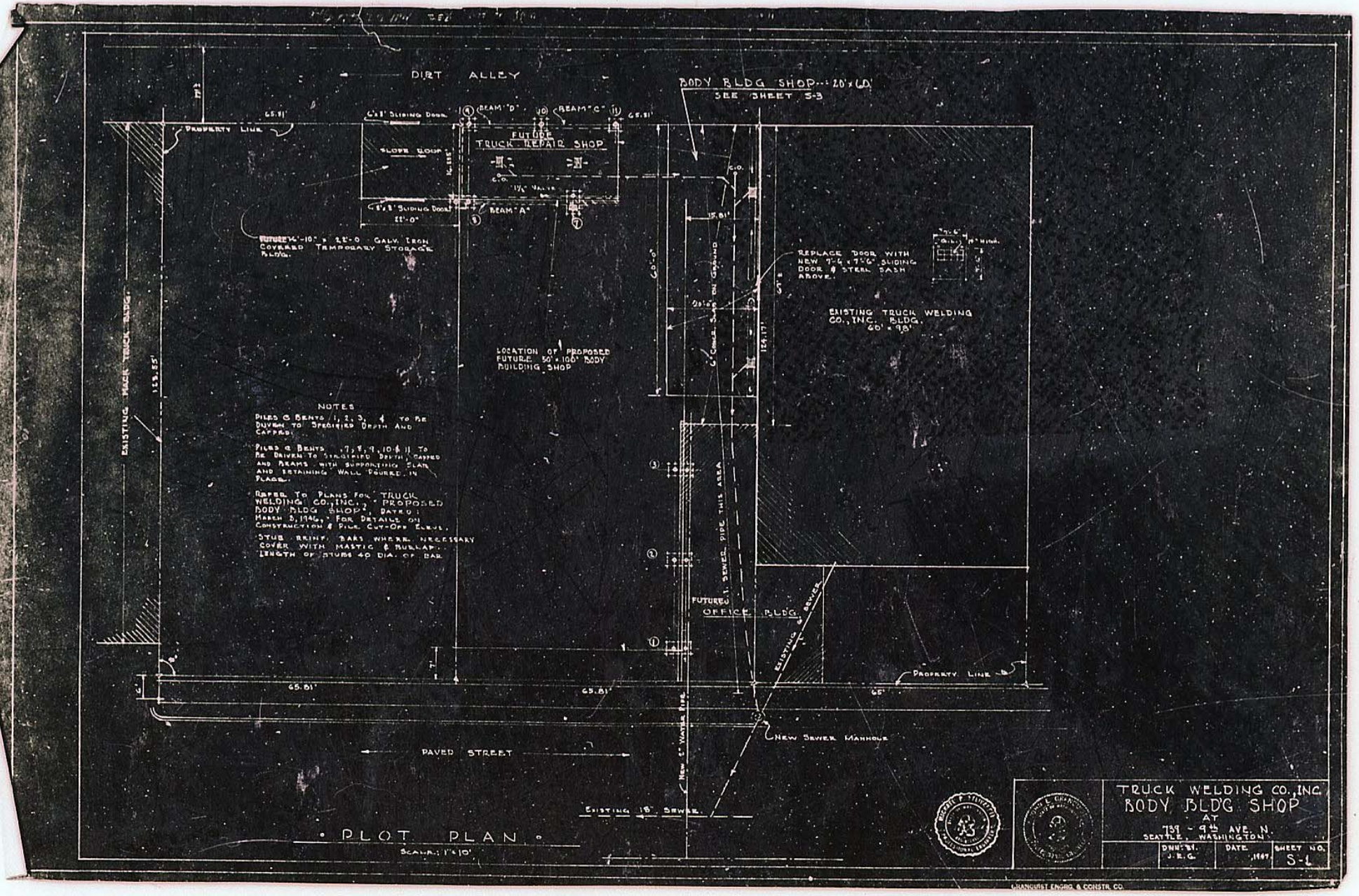
TRUCK WELDING CO., INC.
OFFICE BLD'G
AT
139 - 9TH AVE. N.
SEATTLE, WASHINGTON

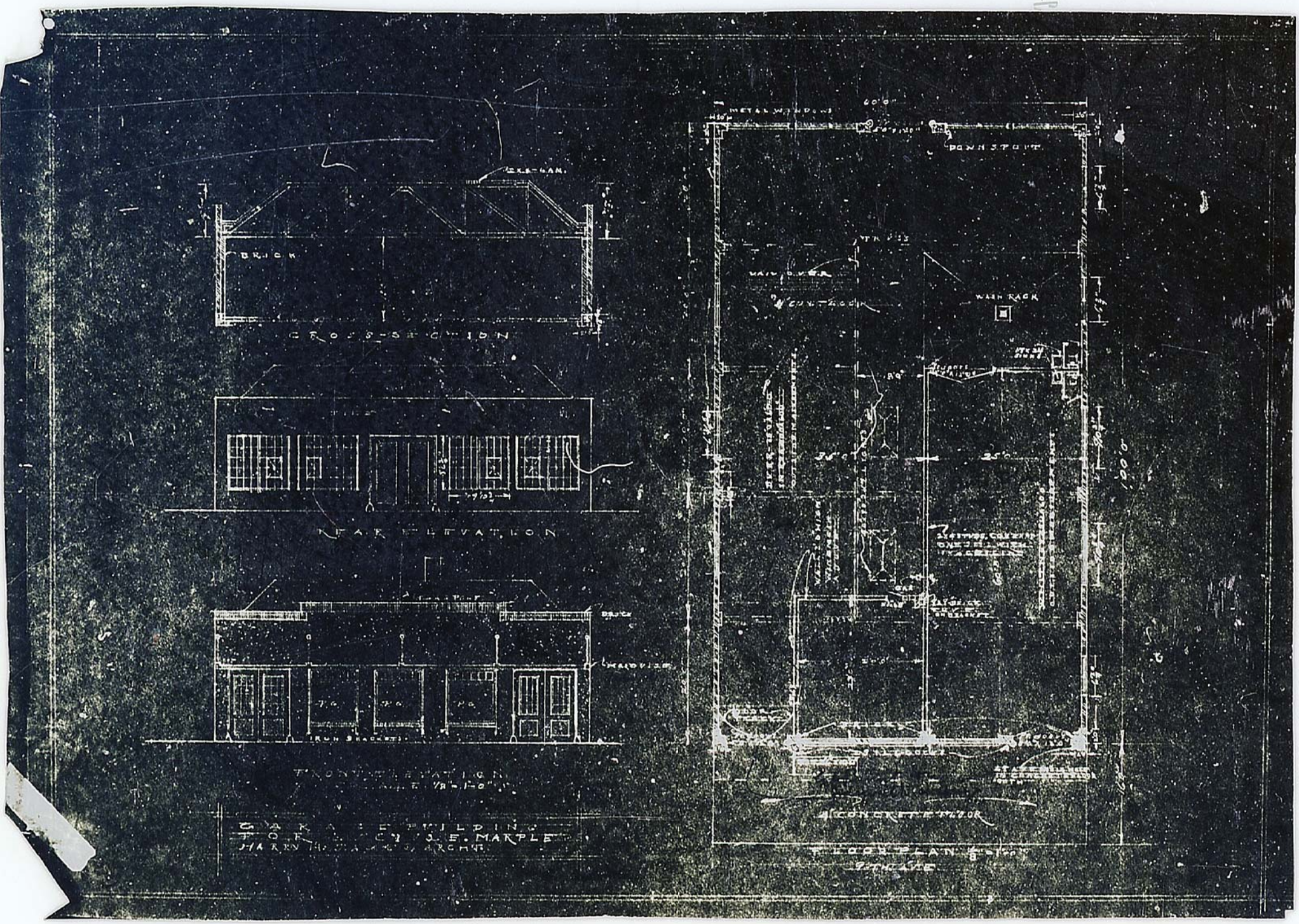
DWN BY:	DATE	SHEET NO.
J.B.G.	SEPT. 1947	A-1

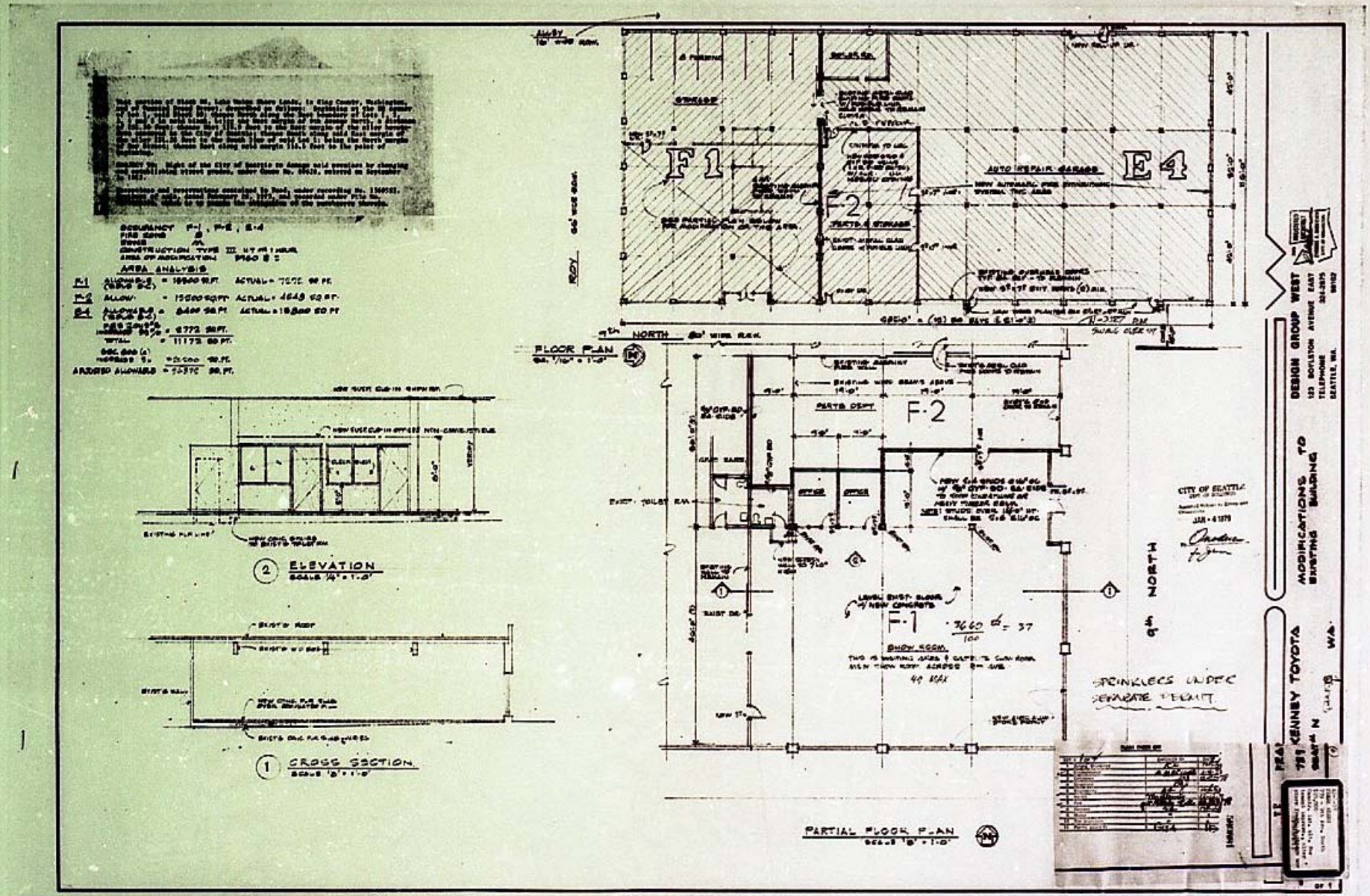

· ROOF · FRAMING · PLAN ·
SCALE: 1/8" = 1'-0"
· SECTION · B-B ·
· SECTION · A-A ·
· PLAN ·
· DETAIL · PURLIN · CONN. ·
· NOTES ·
· DETAIL · BEAM · SEAT ·
BODY VEHICLE BUILDING SHOP


BODY VEHICLE BUILDING SHOP.
Mechanical Ventilation
MAIN FLOOR PLAN
SECT. THRU SKYLIGHT
PLAN SECT. A.A.
VENTILATOR CONSTRUCTION DETAILS
BALCONY PLAN
EAST ELEVATION
CITY OF SEATTLE
MAIN FLOOR PLAN & EAST ELEV.
BODY VEHICLE BUILDING SHOP
FOR
TRUCK WELDING & EQUIPMENT CO.
Seattle, Washington
Feb. 21, 1935
3 of 7

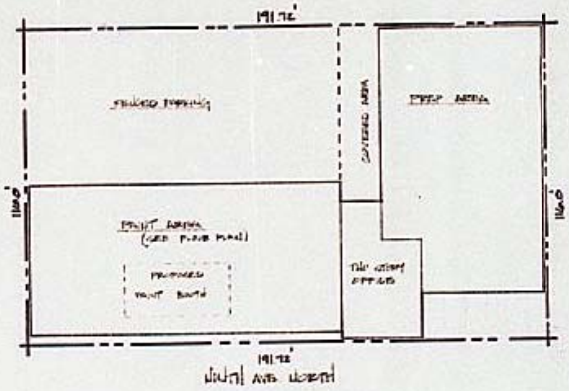

BEAM BAR TYPES
FOUNDATION PLAN
Property Line
Property Line
Property Line
SECT. A-A
SECT. B-B
SECT. C-C
SECT. D-D
SECT. E-E
SECT. F-F
PLAN
SECT. G-G
GENERAL NOTES
GENERAL NOTES (CONT.)
FOUNDATION PLAN & DETAILS
BODY VEHICLE BUILDING SHOP
For
TRUCK WELDING & EQUIPMENT CO.
Seattle, Washington


DIRT ALLEY
BODY BLDG SHOP---20'x60'
SEE SHEET S-3
PROPERTY LINE
65.81'
6'-8" SLIDING DOOR
BEAM "D"
BEAM "C"
FUTURE
TRUCK REPAIR SHOP
SLOPE DOWN
BEAM "A"
6'-8" SLIDING DOOR
22'-0"
FUTURE 14'-10" x 22'-0 GALV. IRON COVERED TEMPORARY STORAGE BLDG.
EXISTING TRUCK BLDG.
119.85'
LOCATION OF PROPOSED FUTURE 50' x 100' BODY BUILDING SHOP
60'-0"
6" CONCR. SLAB ON GROUND
124.17'
15.81'
REPLACE DOOR WITH NEW 7'-4 x 7'-6" SLIDING DOOR & STEEL SASH ABOVE.
EXISTING TRUCK WELDING CO., INC. BLDG. 60' x 98'
NOTES
PILES & BENTS 1, 2, 3, 4 TO BE DRIVEN TO SPECIFIED DEPTH AND CAPPED.
PILES & BENTS 7, 8, 9, 10 & 11 TO BE DRIVEN TO SPECIFIED DEPTH, CAPPED AND BEAMS WITH SUPPORTING SLAB AND RETAINING WALL POURED IN PLACE.
REFER TO PLANS FOR "TRUCK WELDING CO., INC., PROPOSED BODY BLDG SHOP", DATED MARCH 3, 1945, FOR DETAILS OF CONSTRUCTION & FIRE CUT-OFF WALLS.
STUB REINF. BARS WHERE NECESSARY COVER WITH MASTIC & BURLAP. LENGTH OF STUBS 40 DIA. OF BAR.
FUTURE 11' SEWER PIPE THIS AREA
EXISTING 8" SEWER
FUTURE OFFICE BLDG.
PROPERTY LINE
65.81'
65.81'
65'
NEW SEWER MANHOLE
PAVED STREET
NEW 6" WATER PIPE
EXISTING 16" SEWER
PLOT PLAN
SCALE: 1"=10'
TRUCK WELDING CO., INC.
BODY BLDG SHOP
AT
739 - 9th AVE. N.
SEATTLE, WASHINGTON
DWN. BY J.R.G.
DATE 1947
SHEET NO. S-1
GRANQUIST ENGRG. & CONSTR. CO.


CROSS SECTION
BRICK
REAR ELEVATION
FRONT ELEVATION
GARAGE BUILDING
FOR
J. E. MAPLE
WASH RACK
CONCRETE FLOOR
FLOOR PLAN


OCCUPANCY F-1, F-2, E-4
FIRE ZONE 2
SPRINKLERED NO
CONSTRUCTION TYPE III 1HR
AREA OF MODIFICATION 9160 S.F.
AREA ANALYSIS
F-1 ALLOWABLE (50% SPRINKLERED) = 15000 SQ.FT. ACTUAL = 7272 SQ.FT.
F-2 ALLOW. = 15000 SQ.FT. ACTUAL = 4648 SQ.FT.
E-4 ALLOWABLE (50% SPRINKLERED) = 6400 SQ.FT. ACTUAL = 18,800 SQ.FT.
F-1 ALLOWABLE INCREASE 50% = 6772 SQ.FT.
TOTAL = 11772 SQ.FT.
ACTUAL ALLOWABLE = 11772 SQ.FT.
2 ELEVATION
SCALE 1/4" = 1'-0"
1 CROSS SECTION
SCALE 1/8" = 1'-0"
FLOOR PLAN
NORTH
F1
F2
E4
AUTO REPAIR GARAGE
PARTS & STORAGE
PARTS DEPT.
F-2
F-1
SHOW ROOM
SPRINKLERS UNDER SEPARATE PERMIT
PARTIAL FLOOR PLAN
CITY OF SEATTLE
JAN - 4 1979
DESIGN GROUP WEST
123 BOYLSTON AVENUE EAST
SEATTLE, WA.
MODIFICATIONS TO EXISTING BUILDING
FOR KENNEY TOYOTA
NORTH

VICINITY MAP

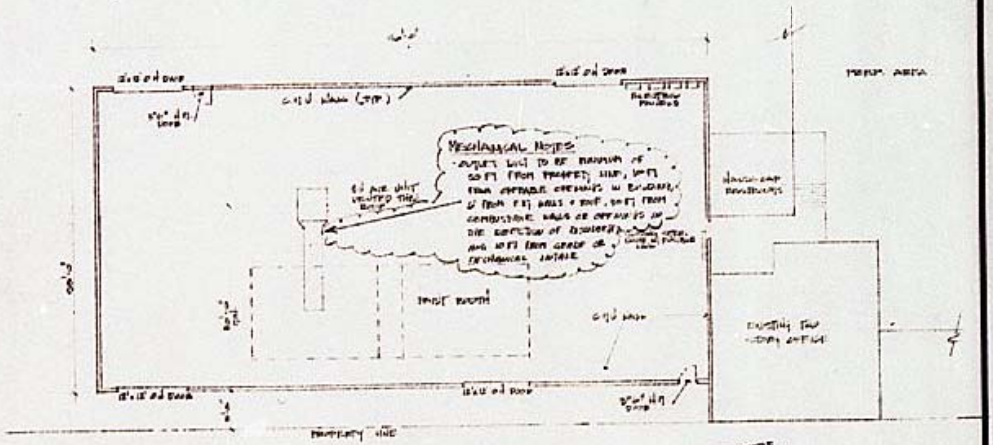


SITE PLAN

LEGAL DESCRIPTION

That portion of Lot 2, Block 80 and of Lots 1,2,3, and 4, Block 82, Lake Union Shorelands and of vacated Broad Street, in King County, Washington, described as follows:

Beginning at a point of the West line of 9th Avenue, North 120 feet North of the South line of Aloha Street; thence North along said Avenue line 191.72 feet to a point 351.72 feet North the North line of Roy Street; thence West parallel with the South line 80 Aloha Street 116 feet, more or less, to the East line of alley conveyed to the City of Seattle, under Ordinance No. 60526; thence South along said Alley line 191.72 feet; thence East parallel with the South line of Aloha Street 116 feet, more or less, to the point of beginning.



FLOOR PLAN

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
JUN 04 1993
APPROVED

RECEIVED
DEC 29 1992
Dept. of Construction & Land Use

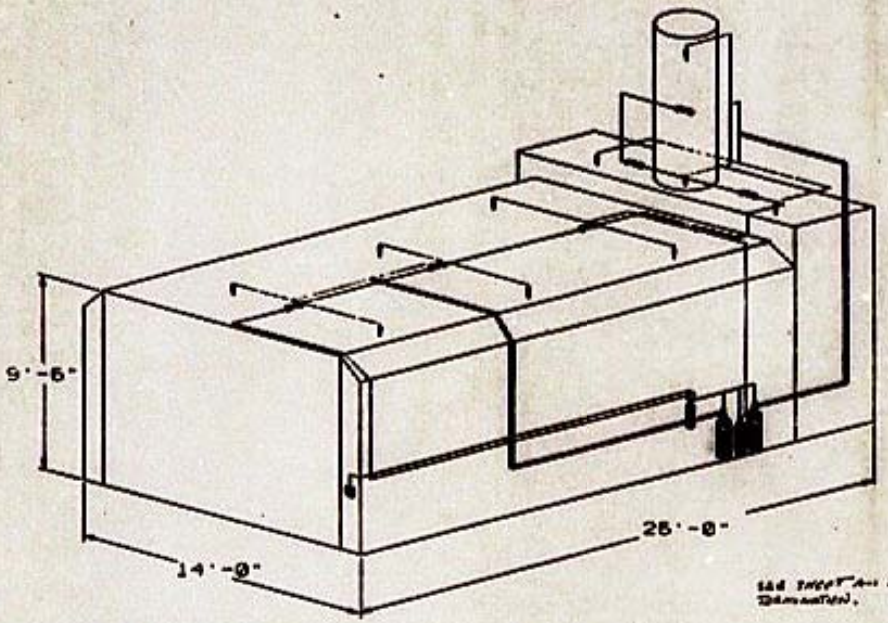
REVISIONS	BY
12/04/92	
12.29.92	

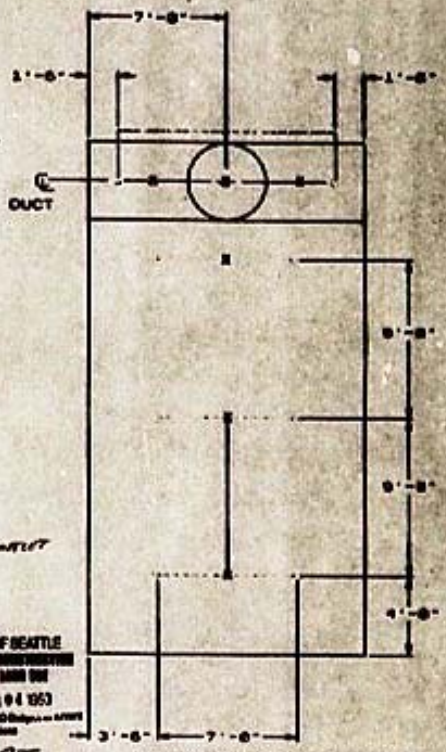
MAACO AUTO BODY & PAINT

1851 NINTH AVE N. SEATTLE

GRAHAM

DRAWN
CHECKED
DATE
SCALE
JOB NO.
SHEET
A-1
OF SHEETS





OVERHEAD VIEW OF NOZZLE LOCATION

X= DENOTES FUSIBLE LINKS LOCATIONS.

BILL OF MATERIAL

NO.	MODEL	ITEM DESCRIPTION
2	PCI-360C	360lb. CYLINDER/VALVE ASSY.
2	PCI-250C	231b. CYLINDER/VALVE ASSY.
1	ECH	ELECTRICAL CONTROL HEAD.
1	MB-P2	CONTROL HEAD MOUNTING BRKT
2	MB-1	CYLINDER MOUNTING BRKT.
1	RPS-M	REMOTE PULL STATION (MECH).
1	PAC-1C	PNEUMATIC CYLINDER ASSY.
1	SM-AAA	SOLENOID MONITOR.
1	PDA-D2	ADAPTER
6	N-1F	NOZZLES.
6	FLK-1	FLK-1 TERMINAL LINK LIT
AR	FLN-1A	FLK-1a SERIES LINK BRACNET
AR		WIRE ROPE
1		CORNER PULLEY
		4" ELL

CITY OF SEATTLE
DEPT. OF CONSTRUCTION
AND LAND USE
JUN 04 1993
APPROVED Subject to Errors and Omissions
By

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
JUN 04 1993
APPROVED Subject to Errors and Omissions
By
MECHANICAL SECTION

NOTES:
THIS SYSTEM TO BE INSTALLED AND SERVICED AS PER PYRO CHEM PCI 25/30 INDUSTRIAL TECHNICAL MANUAL AND TECHNICAL SUPPLEMENT NO. 1 FOR PAINT SPRAY BOOTHS.

REV. #	REVISION	DATE
A	PLACED IN CAD.	6/23/89

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
2 PLACE DEC. ±.01
3 PLACE DEC. ±.005
FRACTIONS ±1/64
ANGLES ±.5°

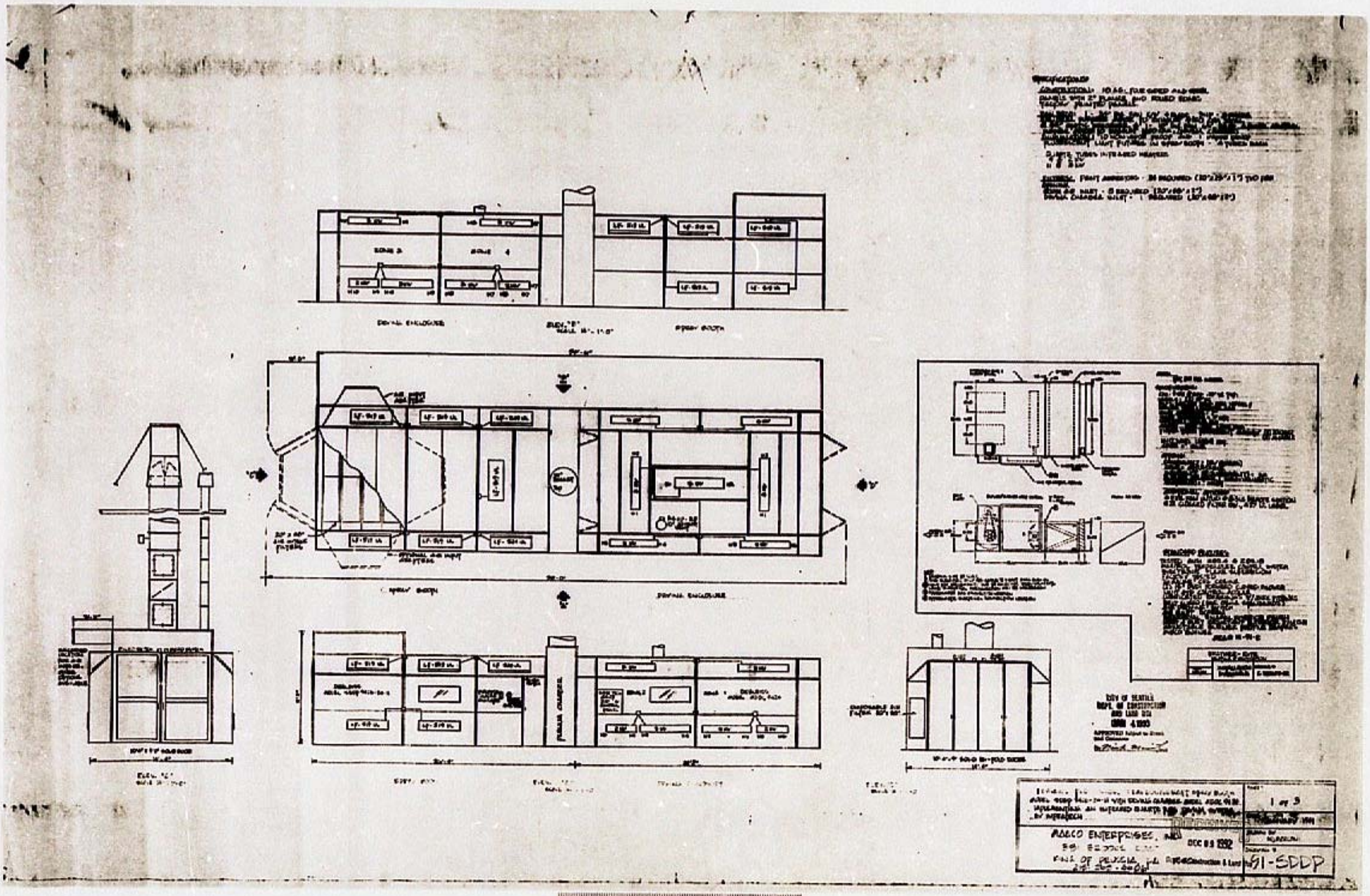
Pyro Chem, Inc.
381 Division St.
Boonton N.J. 07005

DWN BY KLO CHKD BY

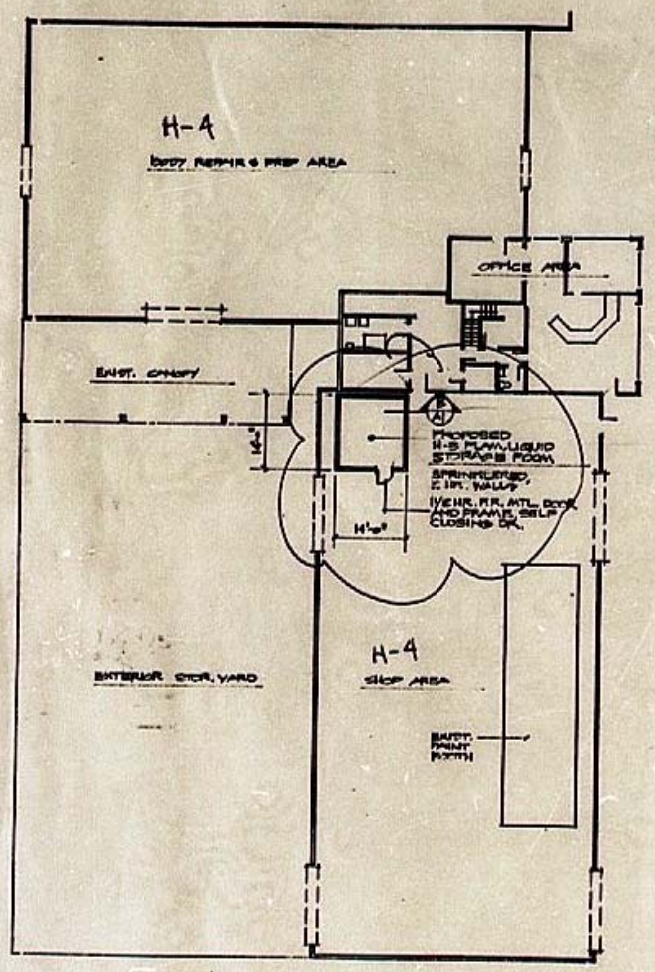
TITLE: PAINT SPRAY BOOTH
H&ACO

RS-0116 REV. A

RECEIVED
DEC 06 1993
Dept. of Construction & Land Use



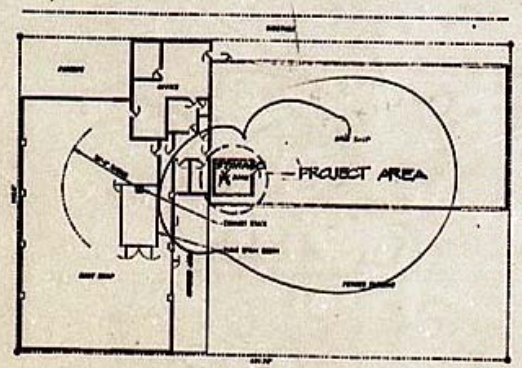
ABECO ENTERPRISES
DEC 09 1992
1 of 3
91-SDDP



A FLOOR PLAN OF EXISTING SHOP + OFFICES
1/16" = 1'-0"
SHOWING PAINT STORAGE ROOM

B WALL SECTION AT STORAGE RM.
3/4" = 1'-0"

9TH AVENUE NORTH



SITE PLAN

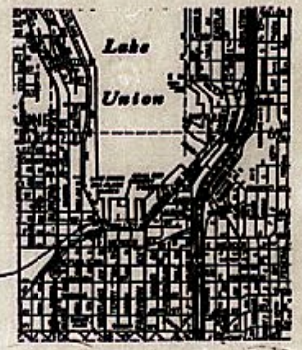
SITE ADDRESS: MAACO AUTOBODY
729 9TH AVENUE NORTH
SEATTLE WA. 98109

TAX ACCOUNT NO: 486886-3485

LEGAL DESCRIPTION:

That portion of Lot 3, Block 30 and of Lots 1,2,3, and 4, Block 32, Lake Union Shorelend and of vacated Broad Street, in King County, Washington, described as follows:

Beginning at a point of the West line of 9th Avenue, North 110 feet South of the South line of Aloha Street; thence South along said Avenue line 101.72 feet to a point 291.39 feet North of the North line of Roy Street; thence West parallel with the South line of Aloha Street 116 feet, more or less, to the East line of alley accepted by the City of Seattle, under Ordinance No. 69084; thence North along said alley line 101.72 feet; thence East parallel with the South line of Aloha Street 116 feet, more or less, to the point of beginning.



VICINITY MAP N

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
JUL 22 1996
APPROVED Subject to Errors and Omissions By:

RECEIVED
APR 09 1996
Dept. of Construction & Land Use

The Kirkpatrick Architects
3923 Palomino Drive N.E.
Bainbridge Island, Washington 98110
(206) 842-8224 Fax (206) 780-5116

PAINT STORAGE RM. ADDITION FOR
MAACO AUTO BODY
729 - 9TH AVENUE NORTH

A-1

SCOPE OF WORK: INSTALL AN APC MDL. A500 DIM MINI AUTO BOOTH COMPLETE WITH EXHAUST STACKING THRU EXISTING WOODEN ROOF. AN AIR SUPPLY FAN WILL BE INSTALLED AND INTERLOCKED WITH THE BOOTH EXHAUST FAN.

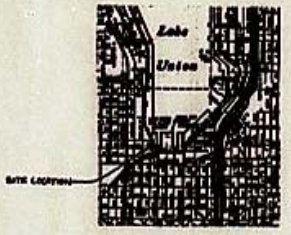
SITE ADDRESS: NAACO AUTOBODY
730 9TH AVENUE NORTH
SEATTLE WA. 98109

TAX ACCOUNT NO: [redacted]

LEGAL DESCRIPTION:

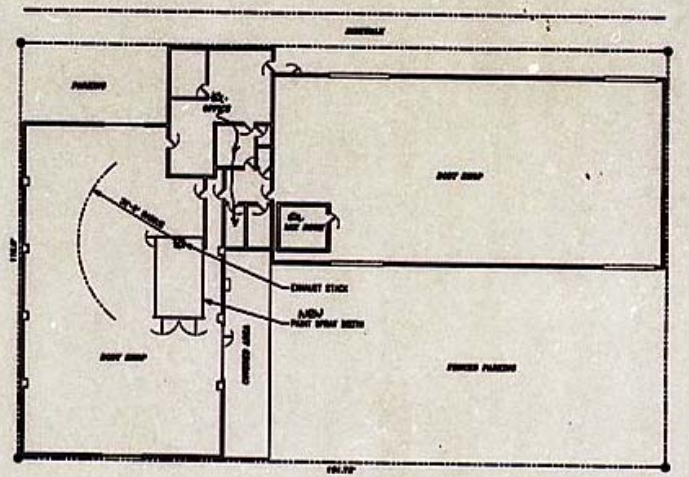
That portion of Lot 5, Block 69 and of Lots 1,2,3, and 4, Block 53, Lake Union Shorelands and of vacated Bond Street, in King County, Washington, described as follows:

Beginning at a point of the West line of 9th Avenue, north 150 feet South of the South line of John Street, thence South along said Avenue line 201.72 feet to a point 301.38 feet North of the North line of Roy Street; thence West parallel with the South line of John Street 132 feet, more or less, to the East line of alley created in the City of Seattle, under Ordinance No. 40250; thence North along said alley line 201.72 feet; thence East parallel with the South line of John Street 134 feet, more or less, to the point of beginning.



VICINITY MAP N

9TH AVENUE NORTH



SITE PLAN
SCALE 1/16" = 1'-0" N

Parking not required
Etc.
No residential within 50'

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
FEB 09 1996
APPROVED Subject to notes and conditions
By

RECEIVED
JAN 12 1996
Dept. of Construction & Land Use

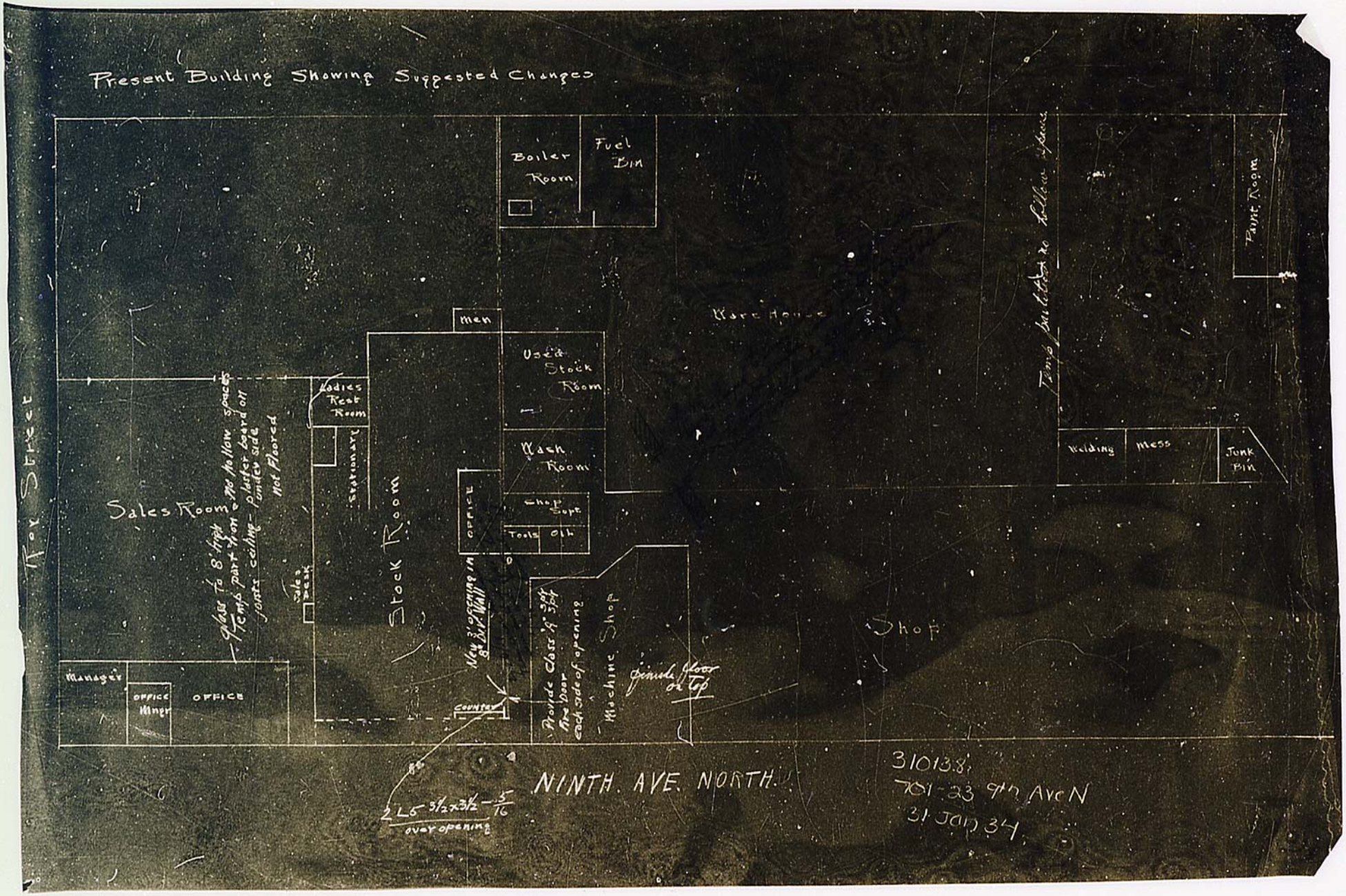
REVISIONS	DATE

PROJECT
NAACO AUTOBODY
730 9TH AVE N
SEATTLE, WA 98109
TAX ACCOUNT NO. [redacted]

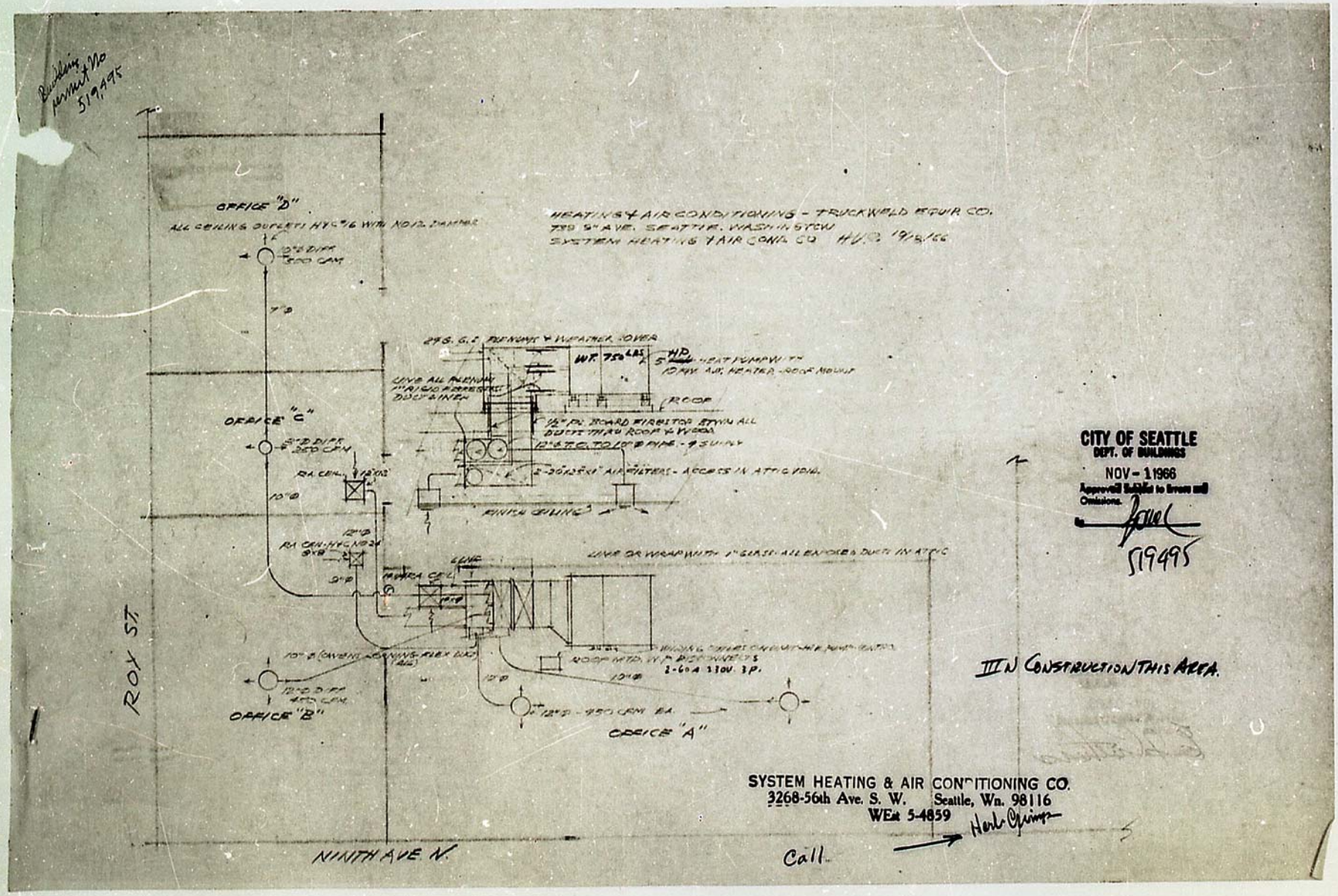
830 INDUSTRY DRIVE
TUKWILA, WA 98188
PH. 206/575-2016

K WEST SYSTEMS

DRAWN BY:	RWS
CHECKED:	
DATE:	1/12/96
SCALE:	1/4" = 1'-0"
JOB NO:	95-47
DRAWING NO:	95-47


Present Building Showing Suggested Changes
Boiler Room
Fuel Bin
Paint Room
Men
Used Stock Room
Ware House
Ladies Rest Room
Stationary
Wash Room
Welding
Mess
Junk Pile
Sales Room
Glass to 8' high 1/2 inch hollow spaces 1/2 inch part glass
Plaster board on joists ceiling - Plaster side inside
Not Floored
Sales Desk
Stock Room
OFFICE
Shop
Tools
Oil
New 3' opening in 8" brick wall
Manager
OFFICE
OFFICE Mngr
COUNTER
Provide Class 'A' fire door each side of opening
Machine Shop
Finish floor as Top
NINTH AVE. NORTH.
2 L's 3 1/2 x 3 1/2 - 5/16 over opening
3101 3 8
701-33 9th Ave N
31 Jan 34

Building permit No 519495



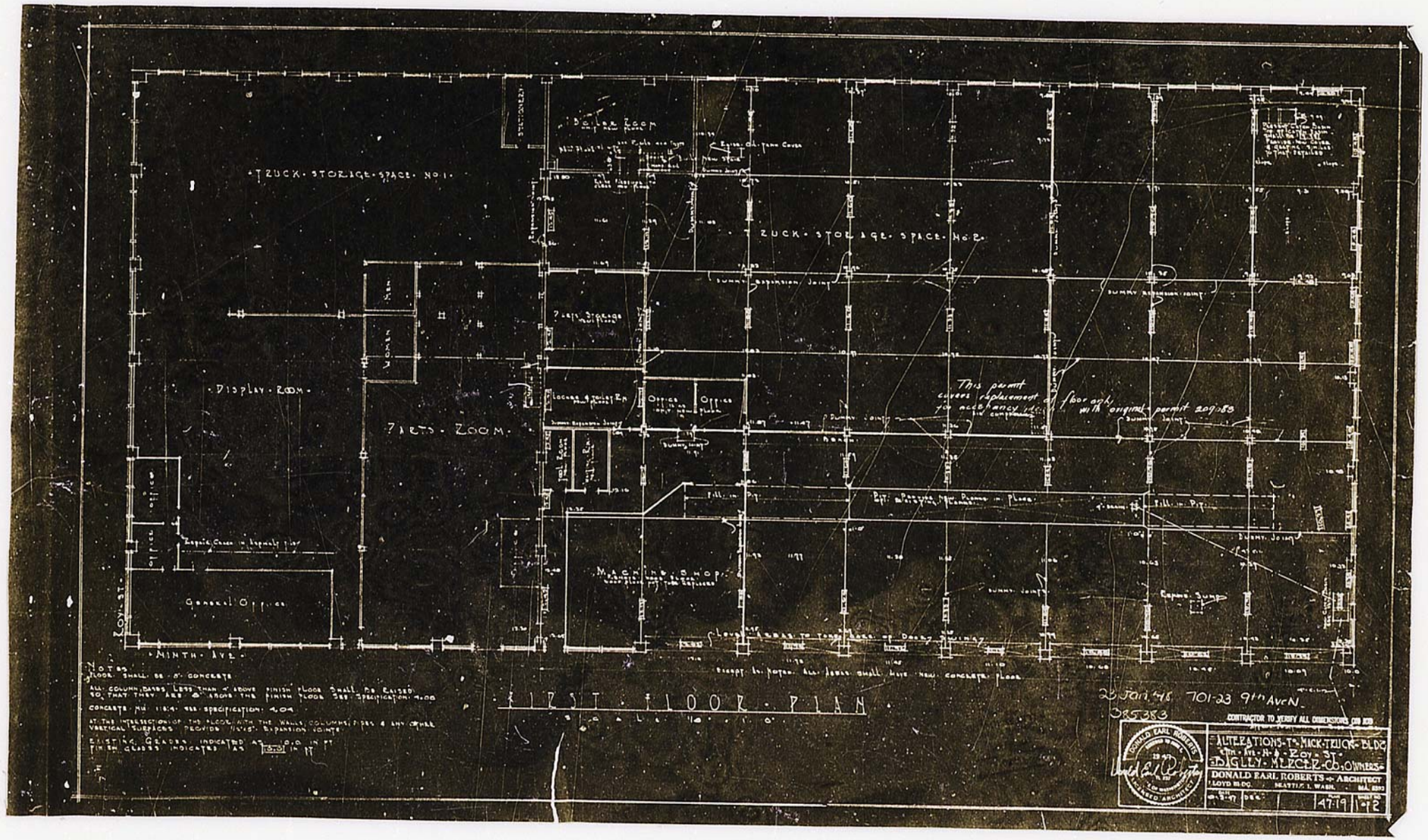
HEATING & AIR CONDITIONING - TRUCKWELD EQUIP CO.
739 5th AVE. SEATTLE, WASHINGTON
SYSTEM HEATING & AIR COND. CO. H.V.C. 9/8/66

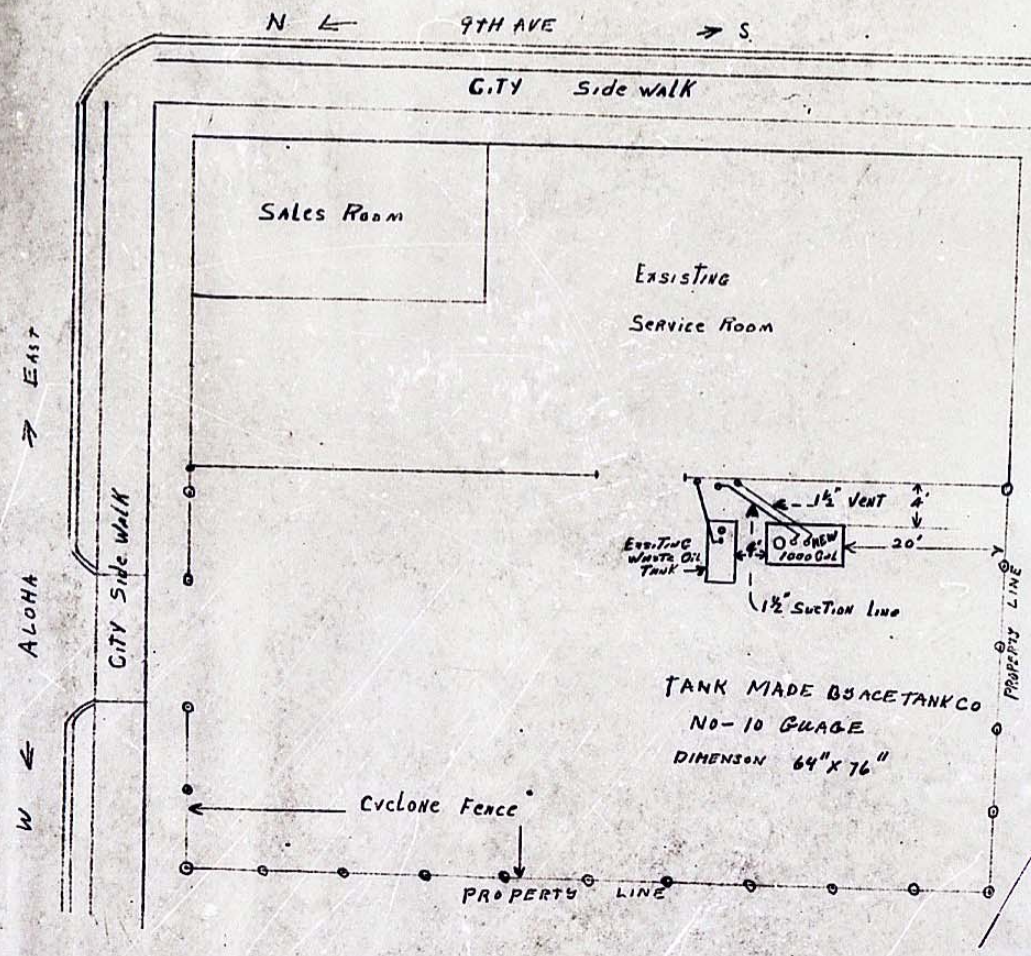
CITY OF SEATTLE
DEPT. OF BUILDINGS
NOV - 1 1966
Approved Subject to Errors and Omissions.
By
519495

III N CONSTRUCTION THIS AREA.

SYSTEM HEATING & AIR CONDITIONING CO.
3268-56th Ave. S. W. Seattle, Wn. 98116
WEst 5-4859
Herb Grimp

Call


TZUCK STORAGE SPACE NO 1
Display Room
Parts Room
General Offices
Ninth Ave
Roy St
Boiler Room
TZUCK STORAGE SPACE No 2
Machine Shop
Offices
This permit covers replacement of floor only with original permit 209-88
Fill in Pit
Sump
Expans. Joint
Slope floors to form back of Dressing Trough
Except in pumps all floors shall have new concrete floor
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
28 Jan 48 701-23 9th Ave N.
DR5383
CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB
DONALD EARL ROBERTS REGISTERED ARCHITECT
ALTERATIONS TO MICK TZUCK BLDG
9th Ave N & Roy St
DIGBY MERCER CO OWNERS
DONALD EARL ROBERTS ARCHITECT
LOYD BLDG SEATTLE 1 WASH MA 8393
DATE 3-3-47
DRN
SHEET NO 47-19
SHEETS 12



The Studebaker Center

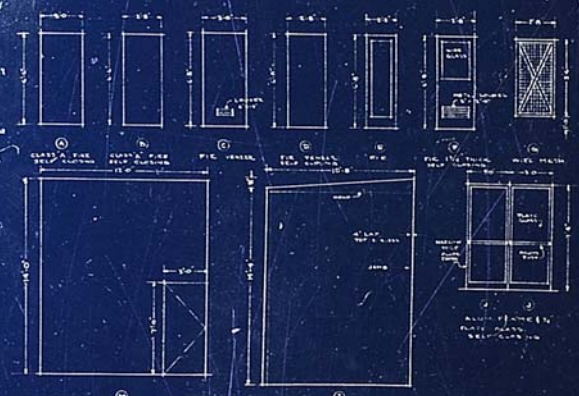
LEGAL DESCRIPTION

753 9th North

THAT CERTAIN ENTIRE BUILDING NUMBERED 753-9TH AVE NORTH MEASURING APPROXIMATELY 50'X120' AND THE ADJACENT LOT MEASURING APPROXIMATELY 60'X120' SITUATE ON THAT PORTION OF LOTS 4 AND 5 BLOCK 82, LAKE UNION SHORE LANDS AND OF VACATED BROAD STREET ADJACENT TO SAID LOTS, DEFINED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WESTERLY LINE OF 9TH AVENUE NORTH WITH THE SOUTH LINE OF ALOHA ST. AS SAID STREET IS ESTABLISHED AND LOCATED UNDER DEED FROM STROVE ESTATE A CORPORATION, TO THE CITY OF SEATTLE, AUDITOR'S FILE 1394419 AND RECORDED IN VOL. 1950, PAGE 270, RECORDS OF KING COUNTY, STATE OF WASHINGTON, AND RUNNING THENCE SOUTH ALONG THE WESTERLY LINE OF 9TH AVENUE NORTH 120'; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID ALOHA STREET 116.4' MORE OR LESS TO THE EAST LINE OF ALLEY IN BLOCK 82 AS SAID ALLEY IS ESTABLISHED AND LOCATED UNDER ABOVE DEED, THENCE NORTH ALONG SAID EAST LINE TO THE SOUTH LINE OF SAID ALOHA STREET, THENCE EAST ALONG SAID SOUTH LINE OF ALOHA STREET 116.4' TO THE POINT OF BEGINNING.

491187

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the



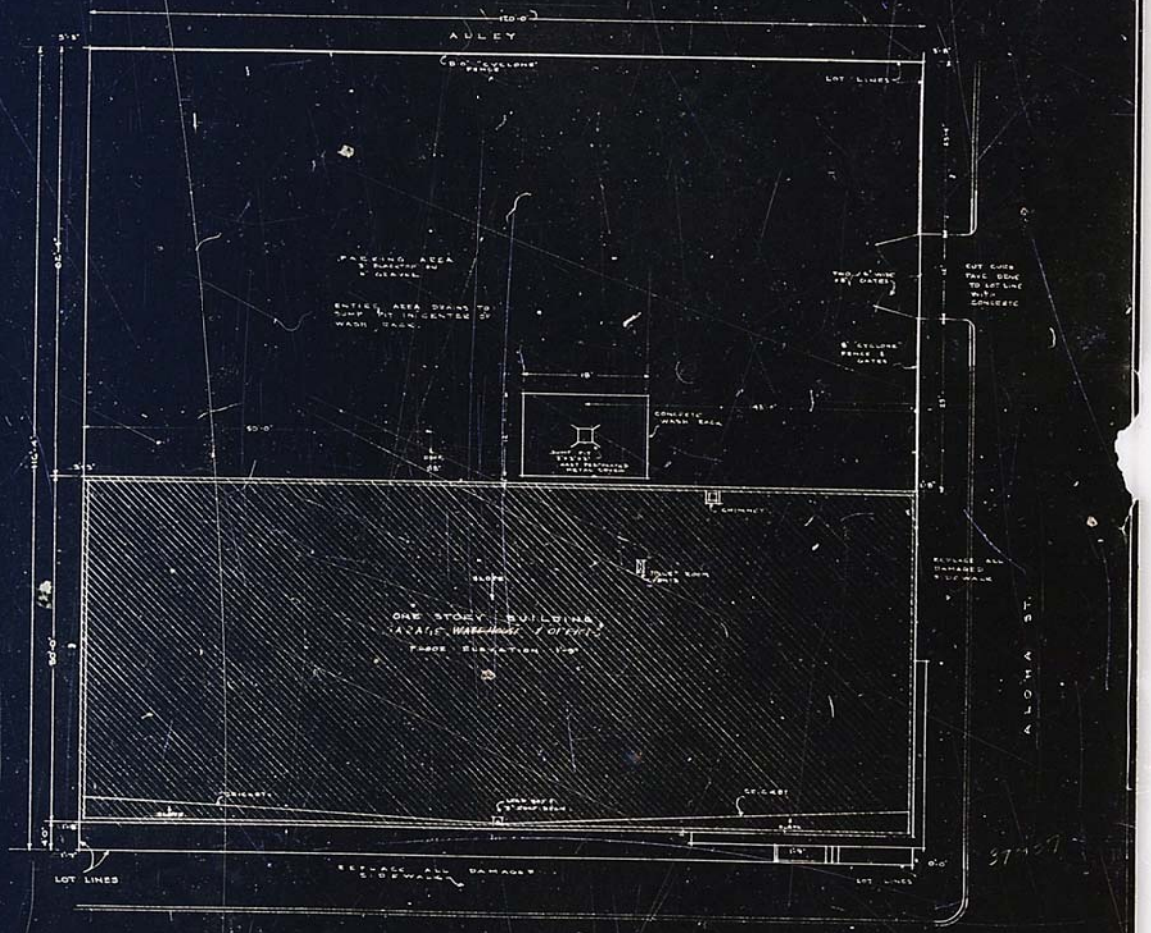
DOOR SCHEDULE SCALE 1/4"=1'0"

NOTES

CONCRETE 5½ SACK MIX 1½ MAX GRAVEL 4 MAX SLUMP
CONCRETE MASONRY CLASS "A" LOAD BEARING TILE
BEAMS, PURLINS, & WOOD COLUMNS TO BE DOUGLAS FIR STRUCTURAL 1400 p.s.i. REMAINDER, DOUGLAS FIR "2 OR BETTER"

NO KEY LOCK FROM INSIDE ON ANY DOOR FOR EXIT TRAVEL OR FROM ANY ROOM FOR GENERAL USE.

STEEL GIRDERS & COLUMNS f_b = 20000 #/□"



PLOT PLAN SCALE 1/8"=1'0"

N

DRAWN BY	R.D.
DATE	7-6-48
CHECKED BY	
DATE	
SCALE	NOTED

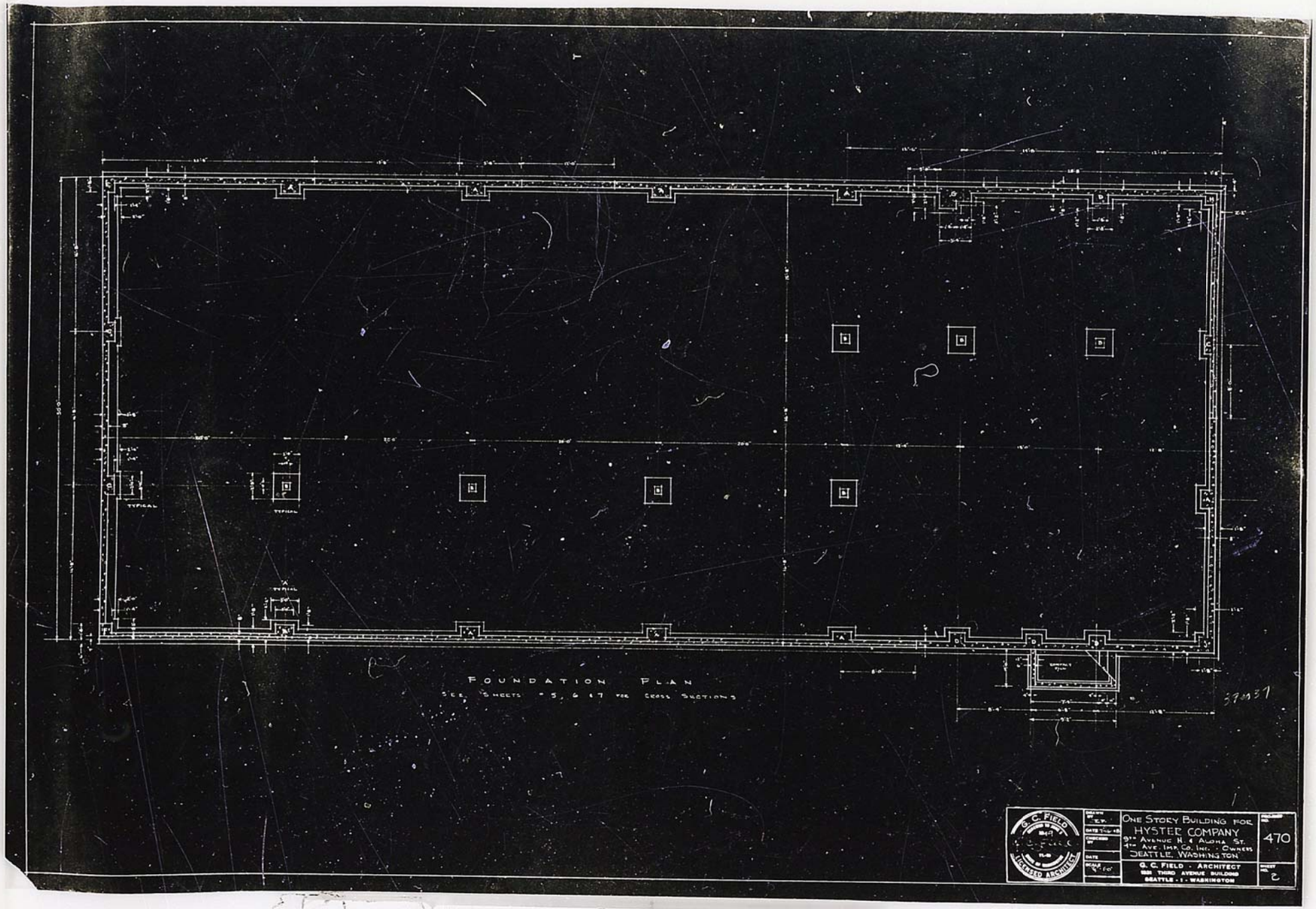
G. C. FIELD · ARCHITECT
1008 THIRD AVENUE BUILDING
SEATTLE - 1 - WASHINGTON

ONE STORY BUILDING FOR HYSTER COMPANY
5th AVENUE N. & ALOHA STREET
4th AVE. INV. CO. INC. - OWNERS
SEATTLE, WASHINGTON

PROJECT NO. 470
SHEET NO. 1

NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24x



FOUNDATION PLAN

SEE SHEETS #5, & #7 FOR CROSS SECTIONS

37037

G. C. FIELD
LICENSED ARCHITECT

DRAWN BY E.P.
DATE July 48
CHECKED BY
DATE
SCALE 1/4" = 1'-0"

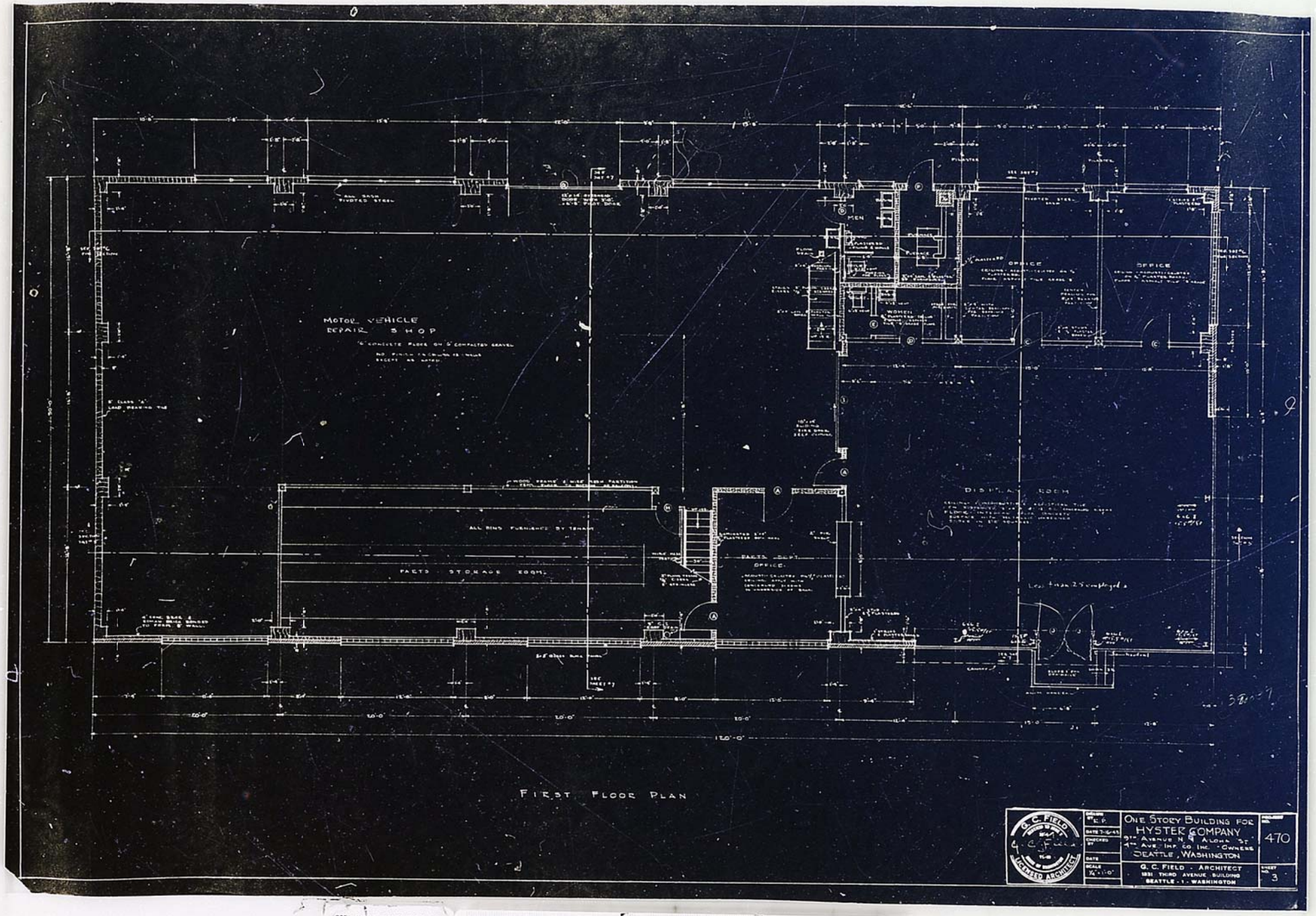
ONE STORY BUILDING FOR
HYSTER COMPANY
9TH AVENUE N. & ALOHA ST.
4TH AVE. IMP. CO. INC. - OWNERS
SEATTLE, WASHINGTON

G. C. FIELD - ARCHITECT
1521 THIRD AVENUE BUILDING
SEATTLE - 1 - WASHINGTON

JOB NO. 470
SHEET NO. 2

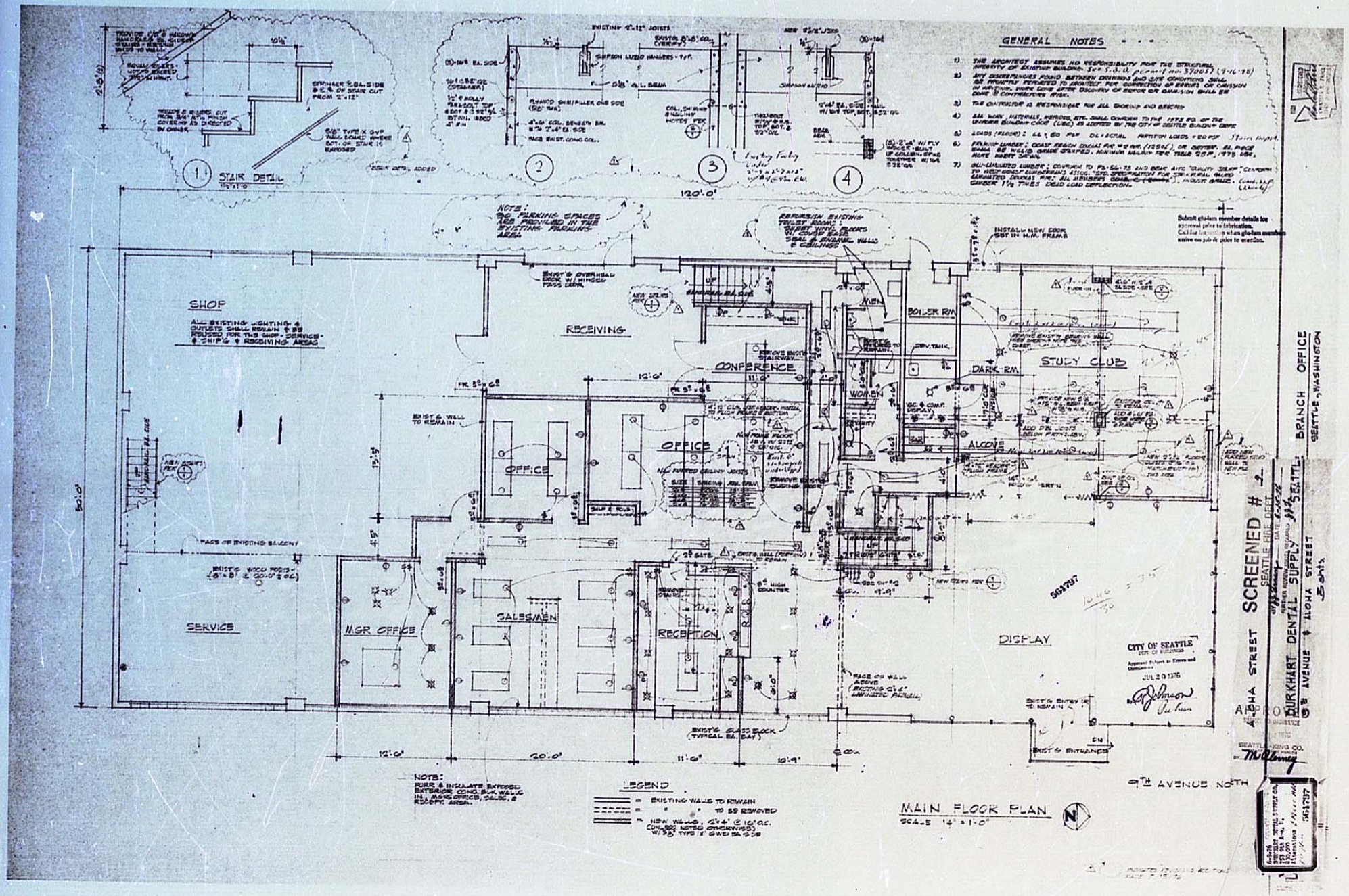
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

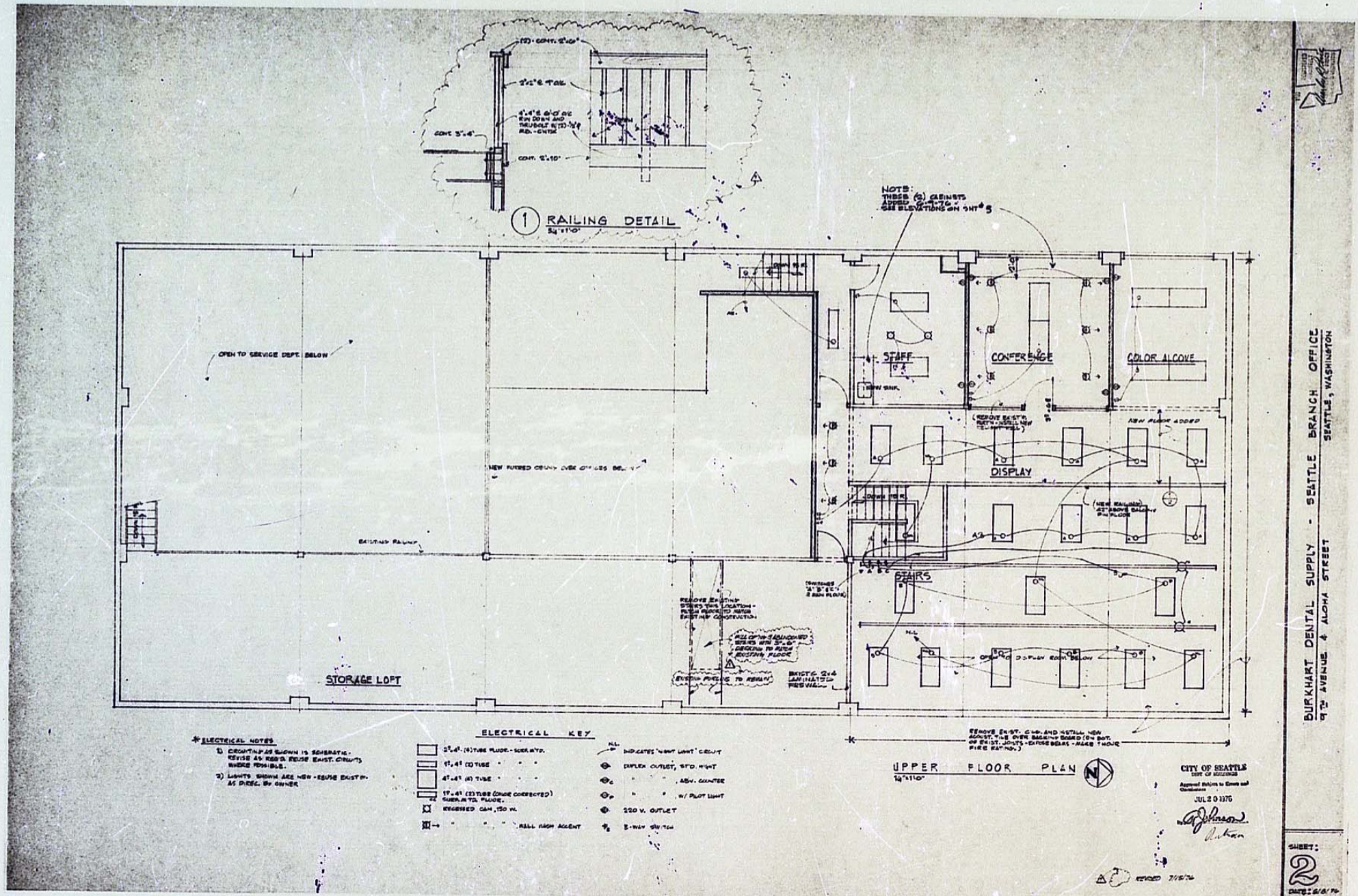
24x



NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

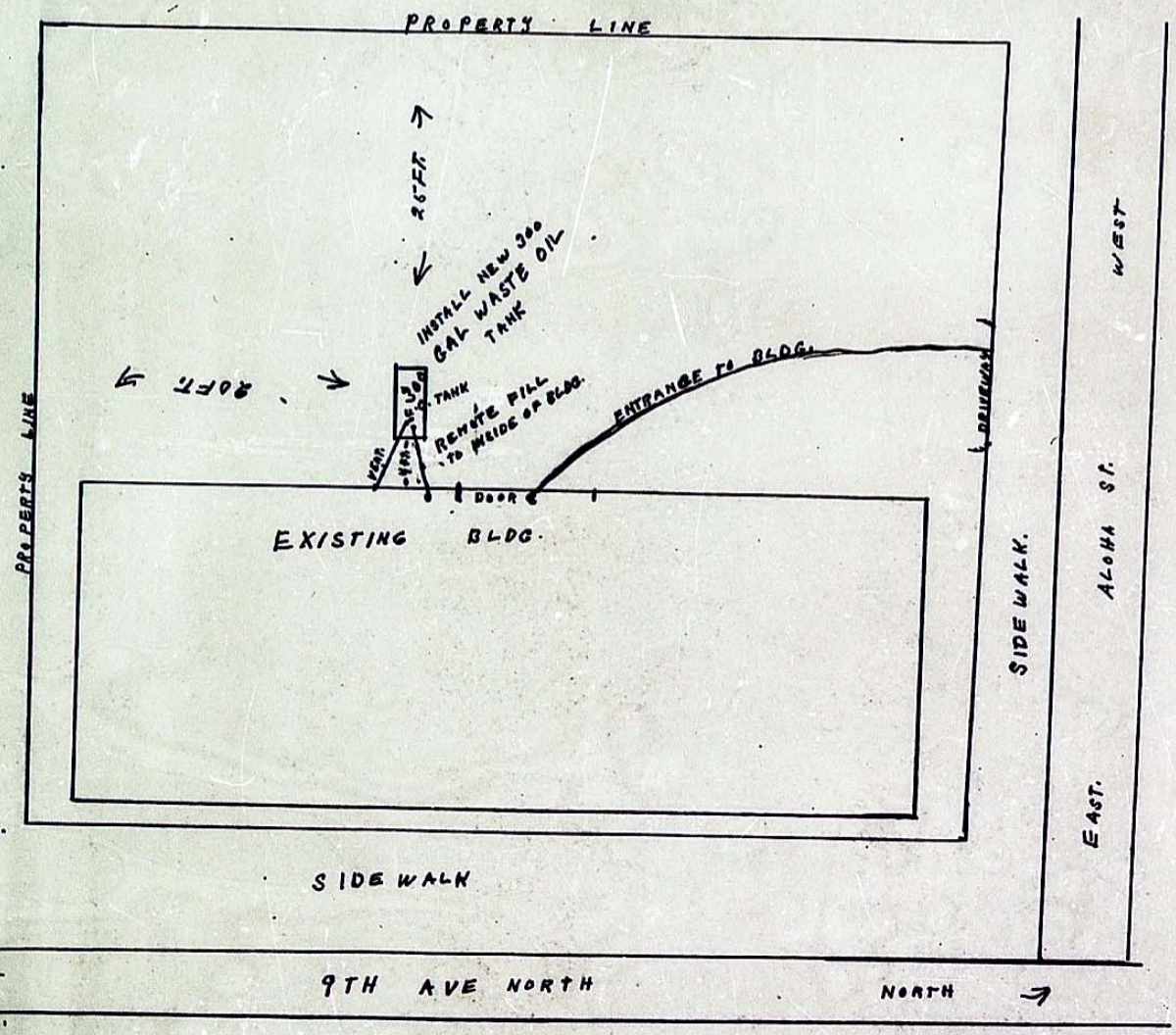
24x


GENERAL NOTES
1) THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE STRUCTURAL INTEGRITY OF EXISTING BUILDING. See S.B.D. permit no. 370057 (9-16-75)
2) ANY DISCREPANCIES FOUND BETWEEN DRAWING AND SITE CONDITIONS SHALL BE PROMPTLY REPORTED TO ARCHITECT FOR CORRECTION OR EXPLANATION BEFORE WORK COMES AFTER DISCOVERY OF ERROR OR OMISSION SHALL BE DONE AT CONTRACTOR'S RISK.
3) THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND BRACING
4) ALL WORK, MATERIALS, METHODS, ETC. SHALL CONFORM TO THE 1973 ED. OF THE UNIFORM BUILDING CODE (UBC) AS ADOPTED BY THE CITY OF SEATTLE BUILDING CODE
5) LOADS (FLOOR): 2 44 x 60 PSF DEAD LOAD PARTITION LOADS +20 PSF
6) FIR PLYWOOD LUMBER: COAST FOREST DOUGLAS FIR #2 OR BETTER, EXTERIOR GLUE SHALL BE WELDED GRADE QUALIFIED. MINIMUM VALUES PER TABLE 25-F, 1973 UBC, MORE WHERE SHOWN.
7) GLU-LAMINATED LUMBER: CONFORM TO PS-56-73 AND ANSI A190.1 "GLULAM TIMBER" CONFORM TO WESTERN GLULAM ASSOC. "SPECIFICATION FOR STRUCTURAL GLUED LAMINATED DOUGLAS FIR." ALL MEMBERS CAMBERED. CAMBER 1½ TIMES DEAD LOAD DEFLECTION.
1 STAIR DETAIL
2
3
4
NOTE: 20 PARKING SPACES ARE PROVIDED IN THE EXISTING PARKING AREA.
SHOP
ALL EXISTING LIGHTING & OUTLETS SHALL REMAIN + BE REUSED FOR THE SHOP - SERVICE - & SHIPG & RECEIVING AREAS
RECEIVING
CONFERENCE
OFFICE
OFFICE
SERVICE
MGR OFFICE
SALESMEN
RECEPTION
BOILER RM
MEN
WOMEN
DARK RM.
STUDY CLUB
ALCOVE
DISPLAY
EXIST'G WALL TO REMAIN
EXIST'G OVERHEAD DOOR W/ HINGED PANEL DOOR
EXIST'G WOOD POSTS (8 - 8" ø @ 20'-0" o.c.)
EXIST'G GLASS BLOCK (TYPICAL BA. BAY)
EXIST'G ENTRY TO REMAIN
EXIST'G ENTRANCE
NEW 6'-0" HIGH CONCRETE RETAINING WALL
NEW STEPS PER
NEW DOOR W.P. FRAME
NOTE: FURR & INSULATE EXPOSED EXTERIOR CONC. BLK. WALLS IN MAIN OFFICE, SALES, & RECEPT. AREAS.
LEGEND
= EXISTING WALLS TO REMAIN
= " " TO BE REMOVED
= NEW WALLS, 2"x4" @ 16" o.c. (UNLESS NOTED OTHERWISE) W/ 5/8 TYPE X GWB BA. SIDE
MAIN FLOOR PLAN
SCALE 1/4" = 1'-0"
120'-0"
50'-0"
9TH AVENUE NORTH
ALOHA STREET
SCREENED # 2
SEATTLE FIRE DEPT.
BURKHART DENTAL SUPPLY CO. BRANCH OFFICE
SEATTLE, WASHINGTON
CITY OF SEATTLE
JUL 23 1976
SEATTLE-KING CO.
561737


1 RAILING DETAIL
NOTE:
OPEN TO SERVICE DEPT. BELOW
STAFF
CONFERENCE
COLOR ALCOVE
DISPLAY
STAIRS
STORAGE LOFT
ELECTRICAL KEY
UPPER FLOOR PLAN
CITY OF SEATTLE
JUL 2 0 1976
BURKHART DENTAL SUPPLY - SEATTLE BRANCH OFFICE
9TH AVENUE & ALOHA STREET
SEATTLE, WASHINGTON
SHEET: 2

UNIVERSITY AUTO CENTER
753 - 9TH NO.
SEATTLE WASH.

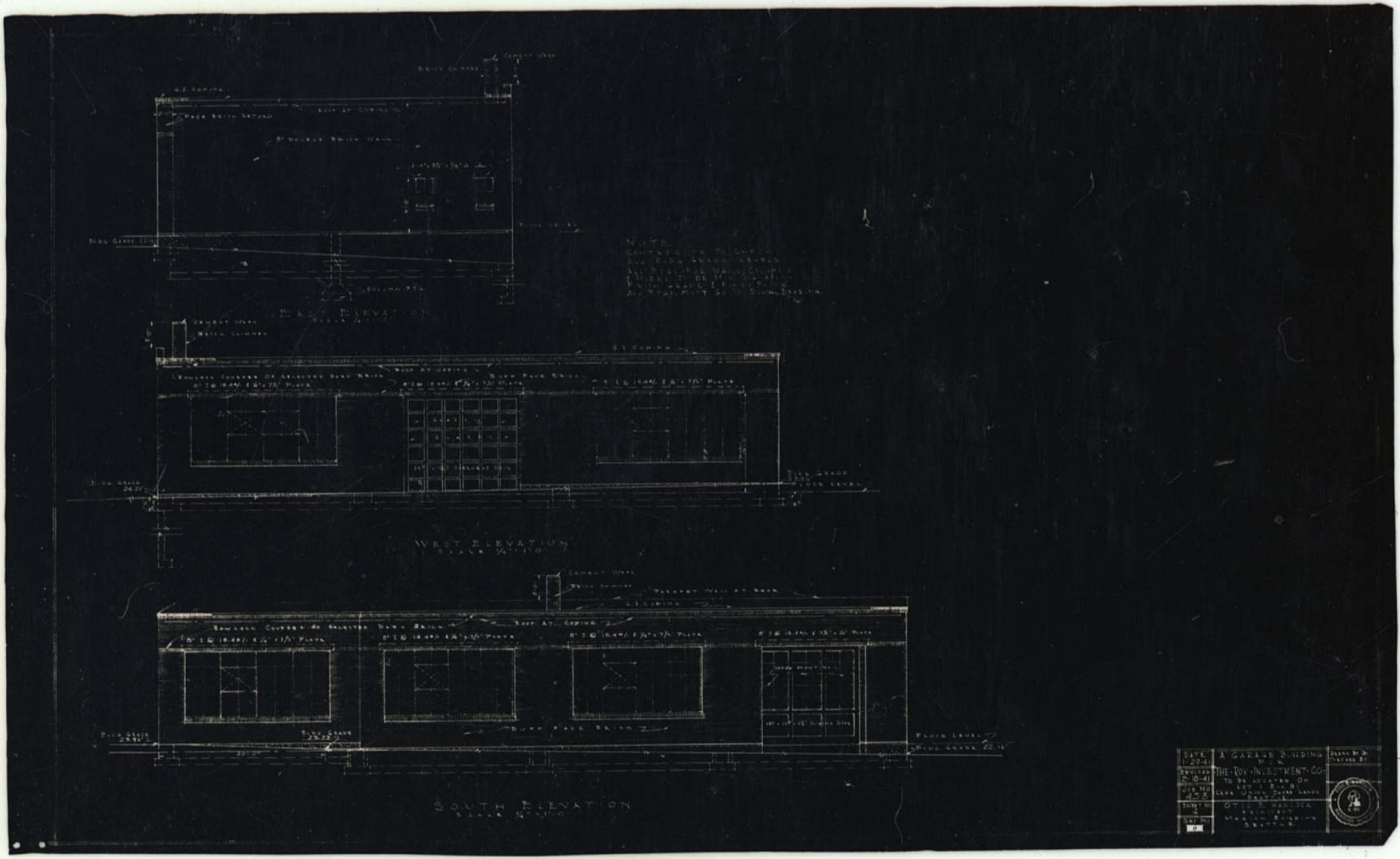
CONTRACTOR
JOHN'S MAINTENANCE
519 VALLEY ST. SEATTLE
AT. 3-9375

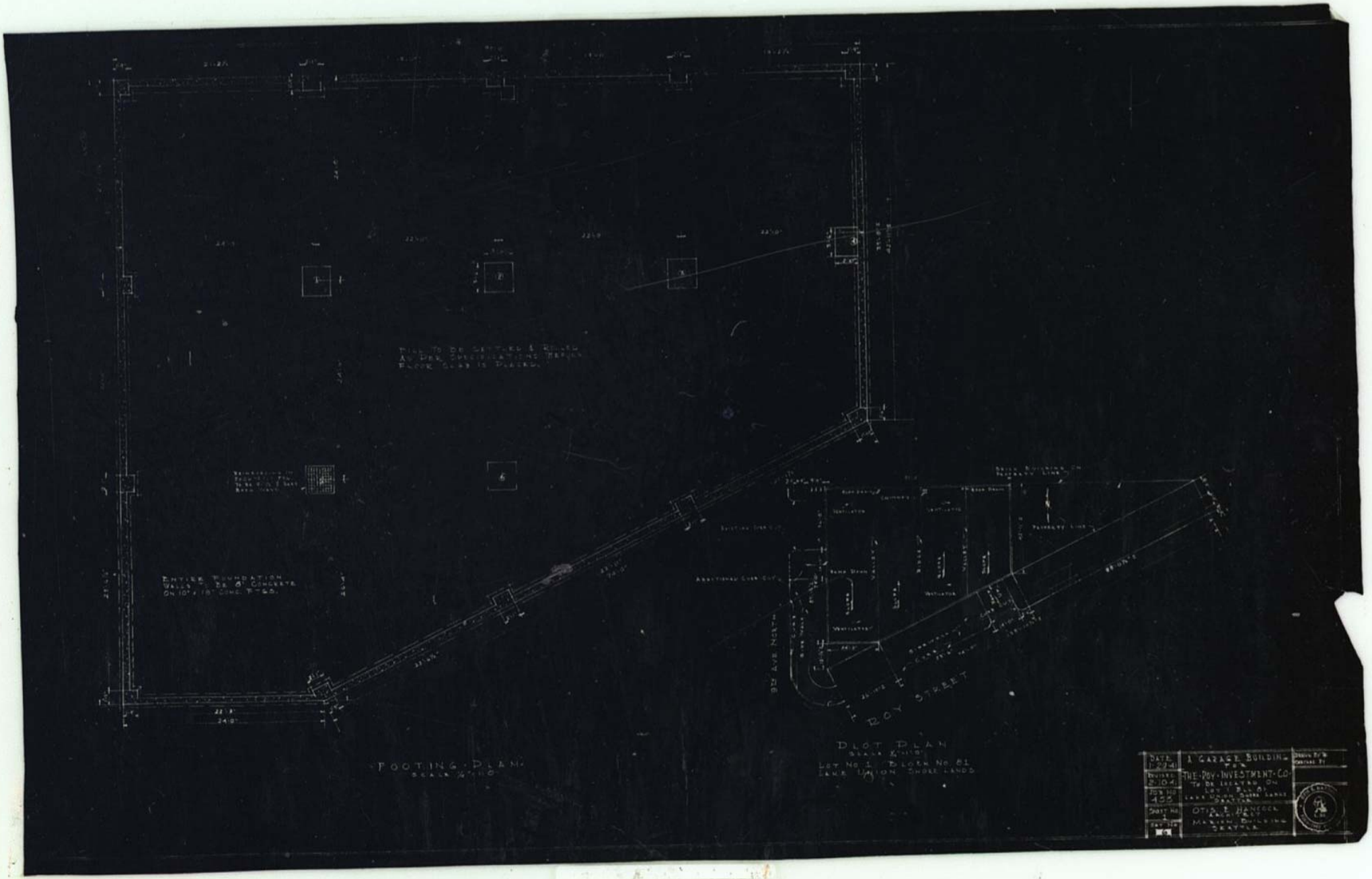


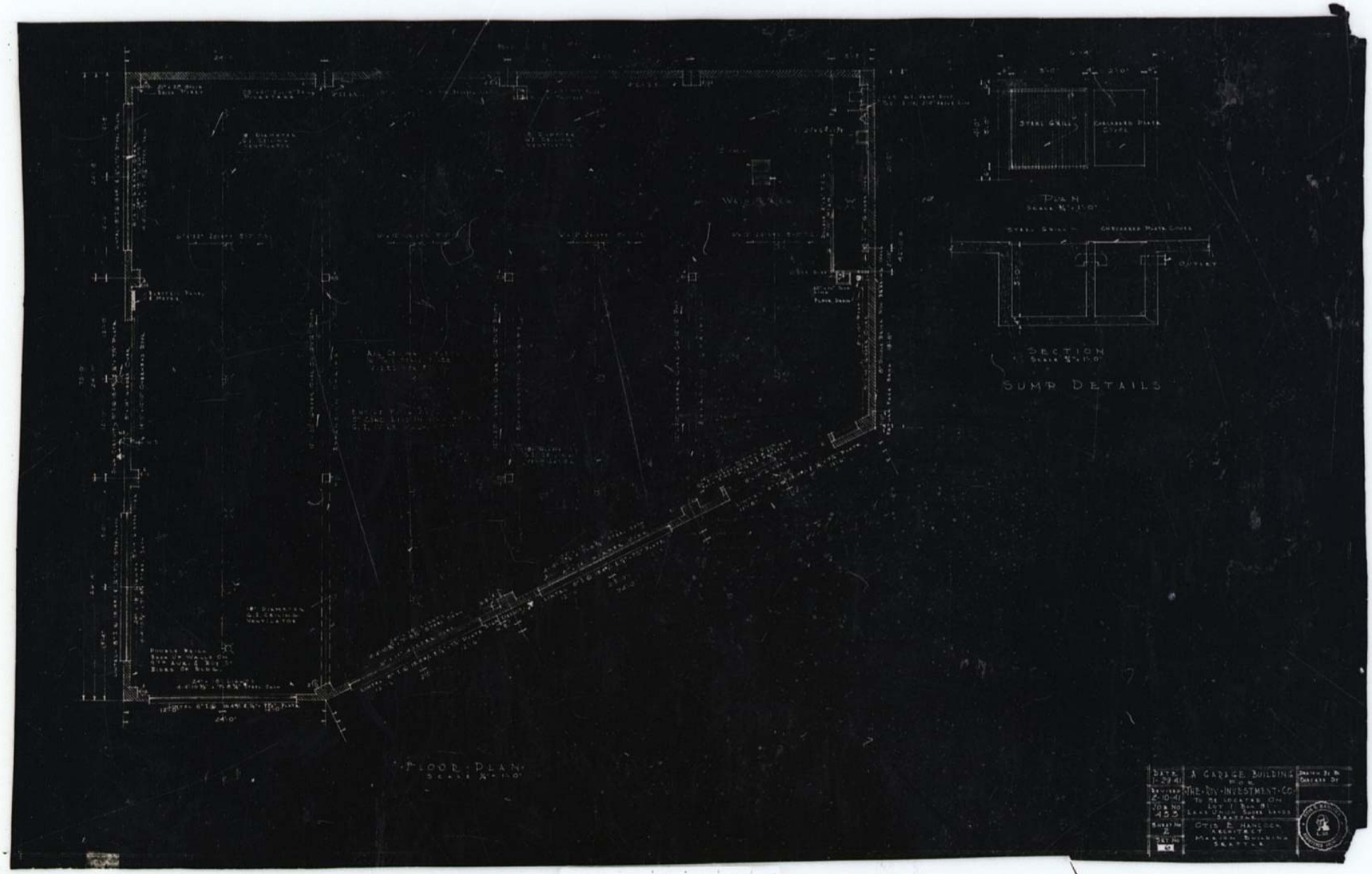
497787
753-9th N.

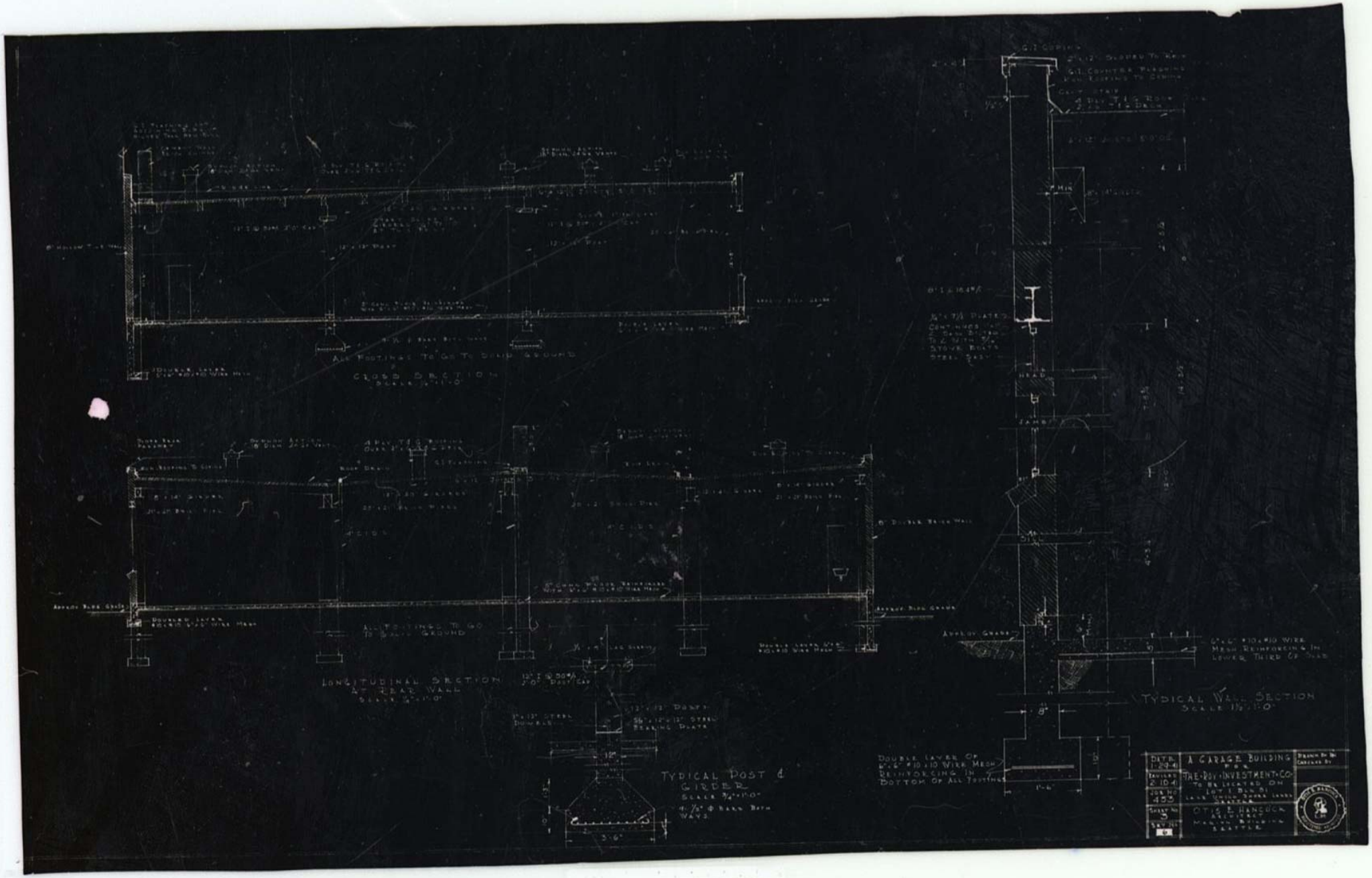
NOTE: If the microfilmed drawing is LESS clear than this

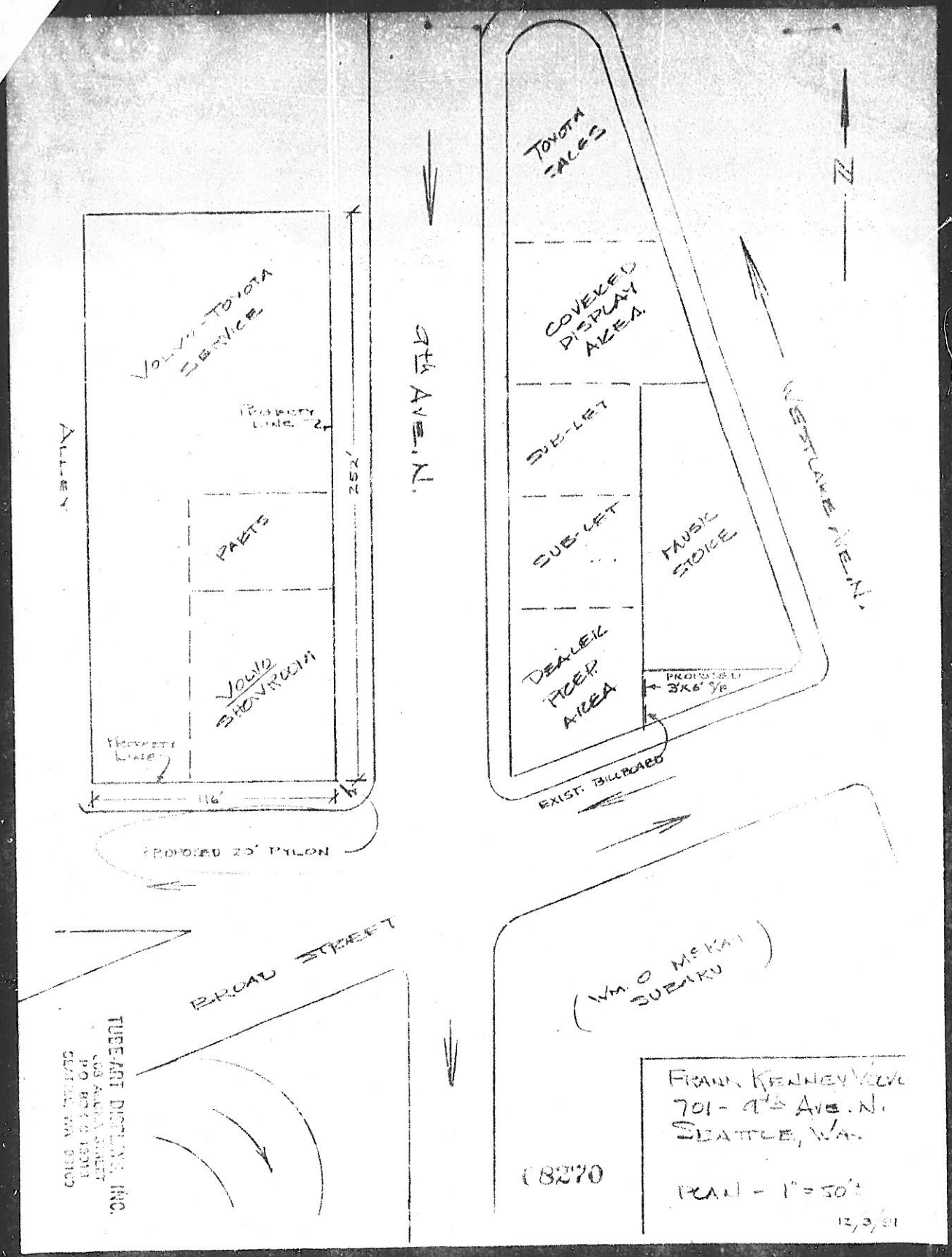
East-Adjoining Properties
900 Roy Street and 707-731 Westlake Avenue North Parcels


EAST ELEVATION
WEST ELEVATION
SOUTH ELEVATION
A GARAGE BUILDING
THE ROY INVESTMENT CO.
OTIS E. HADLEY


FILL TO BE GIVEN A SLOPE AS PER SPECIFICATIONS WHERE PLATE GLASS IS USED.
ENTIRE FOUNDATION WALLS TO BE 8" CONCRETE ON 10" x 18" CONC. FTGS.
9TH AVE NORTH
E ROY STREET
FOOTING PLAN
SCALE 1/4"=1'-0"
PLOT PLAN
SCALE 1/16"=1'-0"
LOT NO 1 BLOCK NO 81
LAKE UNION SHORE LANDS
DATE 1-22-41
DRAWN 2-10-41
JOB NO 455
SHEET NO 1
DRAWING NO 1
1 GARAGE BUILDING FOR THE ROY INVESTMENT CO
TO BE LOCATED ON LOT 1 BLK 81 LAKE UNION SHORE LANDS SEATTLE
OTIS E HANCOCK ARCHITECT
MAYNARD BUILDING SEATTLE


Steel Grille
Checkered Plate Cover
Plan
Section
Sump Details
Floor Plan
A Garage Building
The Ivy Investment Co.
Chris E. Hanson
Architect
Marion Building
Seattle


All Footings To Go To Solid Ground
CROSS SECTION
Scale 1/4"=1'-0"
All Footings To Go To Solid Ground
LONGITUDINAL SECTION AT REAR WALL
Scale 1/4"=1'-0"
TYPICAL POST & GIRDER
Scale 3/4"=1'-0"
TYPICAL WALL SECTION
Scale 1/4"=1'-0"
Double Layer Of No. 10 & 10 Wire Mesh Reinforcing In Bottom Of All Footings
A GARAGE BUILDING
FOR
THE POLY INVESTMENT CO.
TO BE LOCATED ON
LOT 1 BLK 81
OTIS E. HANCOCK
ARCHITECT
SEATTLE


TOYOTA SALES
COVERED DISPLAY AREA
SUB-LET
SUB-LET
SUB-LET
MUSIC STORE
PROPOSED 3'x6' 1/2
EXIST. BILLBOARD
9th Ave. N.
WESTLAKE AVE. N.
N
VOLVO - TOYOTA SERVICE
PROPERTY LINE
252'
PARTS
VOLVO SHOWROOM
PROPERTY LINE
116'
ALLEY
PROPOSED 25' PYLON
BROAD STREET
(WM. O. McKAY SUBIKU)
TUBE-ART DISPLAYS, INC.
FRANK KENNEY VOLVO
701 - 9th Ave. N.
SEATTLE, WA.
8270
SCALE - 1" = 30'
12/9/81

ROY ST.

WESTLAKE AVE

9969

CONFINED BELOW

POWER POLE

PROPOSED 4" PLANKING

SOUTH BOUNDARY OF W.W.P.M. CO.

SAUK & HIGGINS MILL CO OFFICE

CITY PROPERTY LINE

CENTER LINE OF TRESTLE

TOP OF BANK

EDGE OF WATER

NOT TO BE BUILT AT PRESENT

ENCROACHMENT ON WATERWAY NO. 3

ELEV. CUT-OFF N.P. TRESTLE 15.12

N.P. STANDARD STRINGERS 6 LINES 9'-18"-30'

6 LINES 8'-16'-30'

111.37'

110.34'

TRACK CURVE IS ASSUMED TO BE 2°-0'-0" CURVE

LIMIT OF ENCROACHMENT ON WATERWAY NO. 3 IS 8 FEET FROM PROPOSED SPUR TRACK CENTER. RADIUS 470.34' LENGTH 218.05' Δ 26°33'44"

WATERWAY NO. 3

303.60

SEE DETAIL SCALES SUPPORT

PIONEER SAND & GRAVEL Co. SEATTLE WASH.

WESTLAKE BUNKERS LAYOUT, PILE PLAN & CAPS, SPUR TRACK, ROADWAY & R.R. XING

REITZE STOREY & DUFFY INC. ENGINEERS

SCALE: 1"=16'

DATE: APRIL 1919

DRAWN BY E.D. SHEFFIELD

CHECKED BY

FILE 1834 3 OF 3

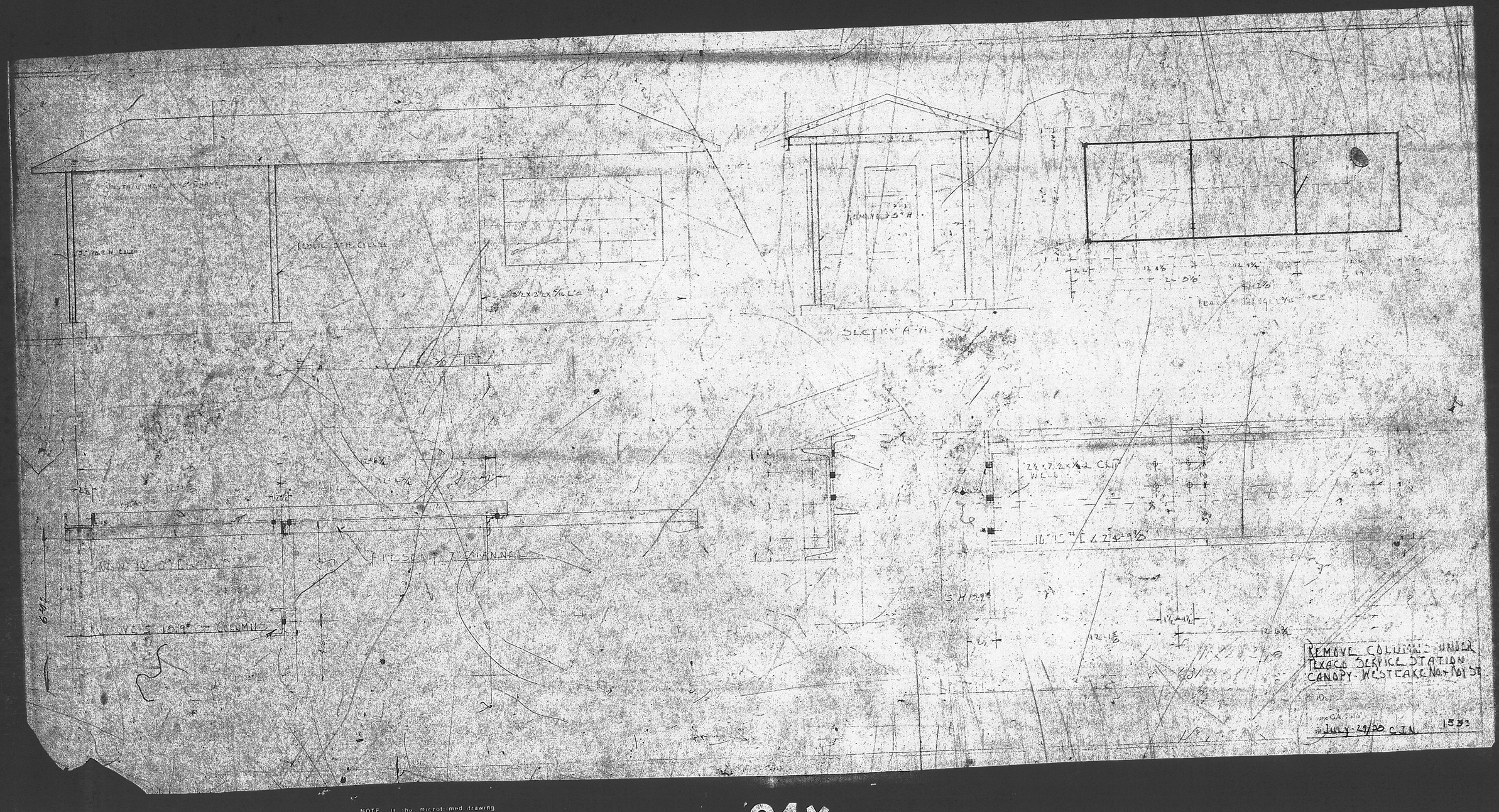
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the

24x

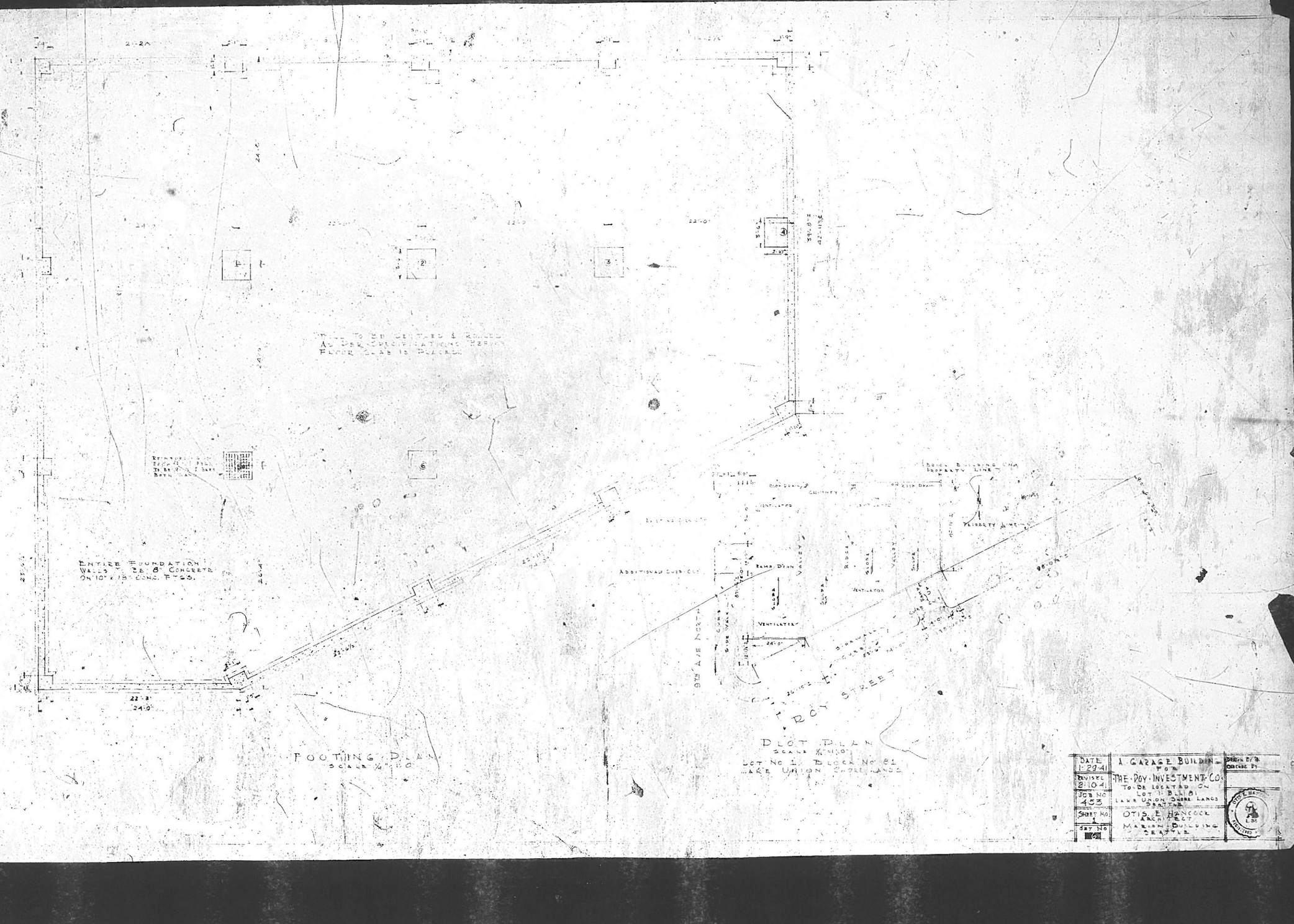
Boiler Room
Cement floor
Floor level 7.33

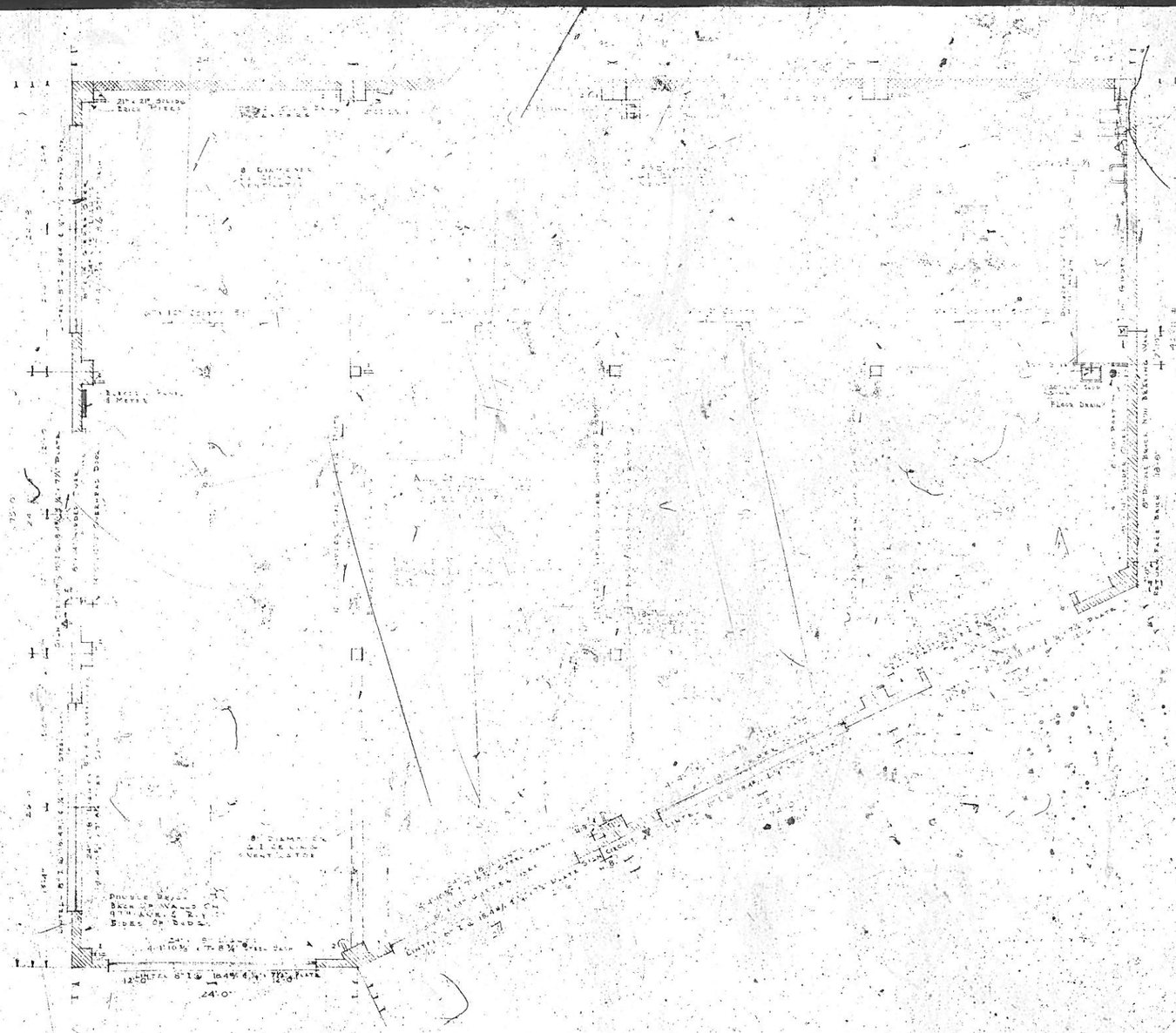
Thick footings to all footings, to be at least 12" over
outer projection of lowest step & the height
to be twice the width of the projection

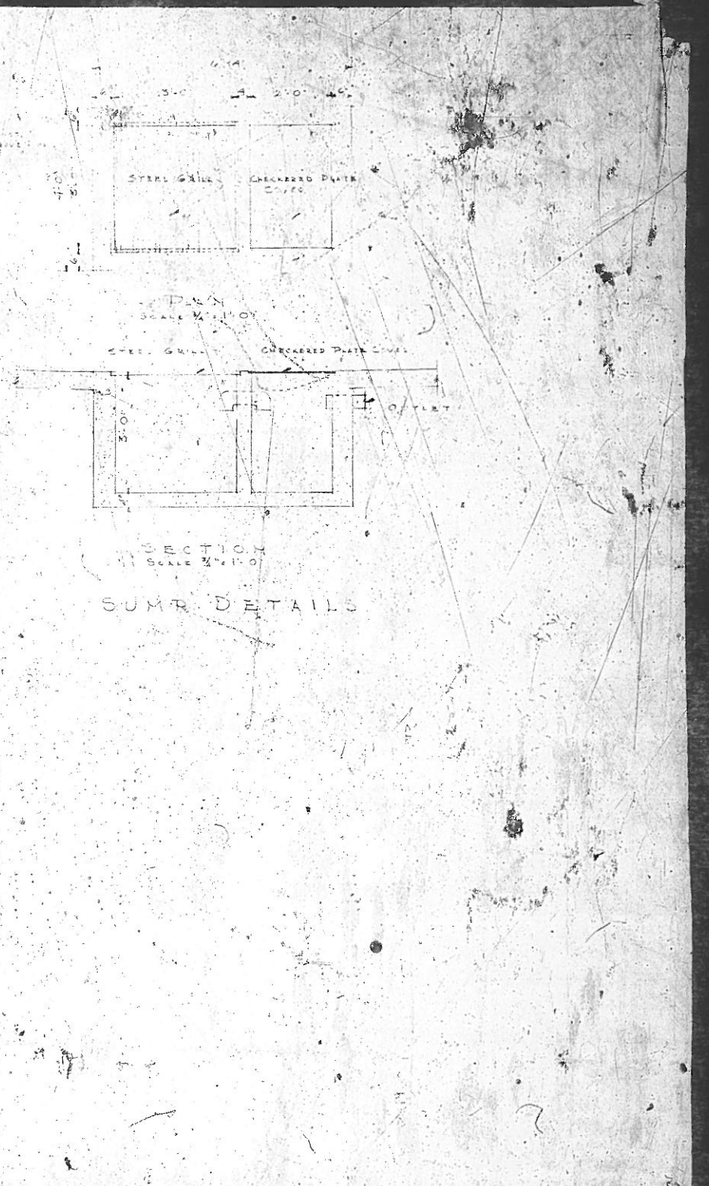
FOUNDATION PLAN
BUILDING
FOR
HICKEY-FREEMAN COMPANY
WAPPING, ARTHUR & CORK ST.
BOSTON
HIDDEN & CLEVELAND, ARCHITECTS



NOTE If the micro-filmed drawing


ENTIRE FOUNDATION WALLS TO BE 8" CONCRETE ON 10" x 18" CONC. FTGS.
FOOTING PLAN
SCALE 1/4"=1'0
PLOT PLAN
SCALE 1/16"=1'0
LOT NO 1 BLOCK NO 61
LAKE UNION SHORE LANDS
9TH AVE NORTH
TROY STREET
RAMP DOWN
VENTILATED
VENTILATOR
SLOPE
RIDGE
VALLEY
DATE 1-29-41
REVISED 2-10-41
JOB NO 453
SHEET NO 1
DRY NO 61
A GARAGE BUILDING FOR THE ROY INVESTMENT CO. TO BE LOCATED ON LOT 1 BLK 61 LAKE UNION SHORE LANDS SEATTLE
OTIS E HANCOCK ARCHITECT MARION BUILDING SEATTLE
DRAWN BY
CHECKED BY



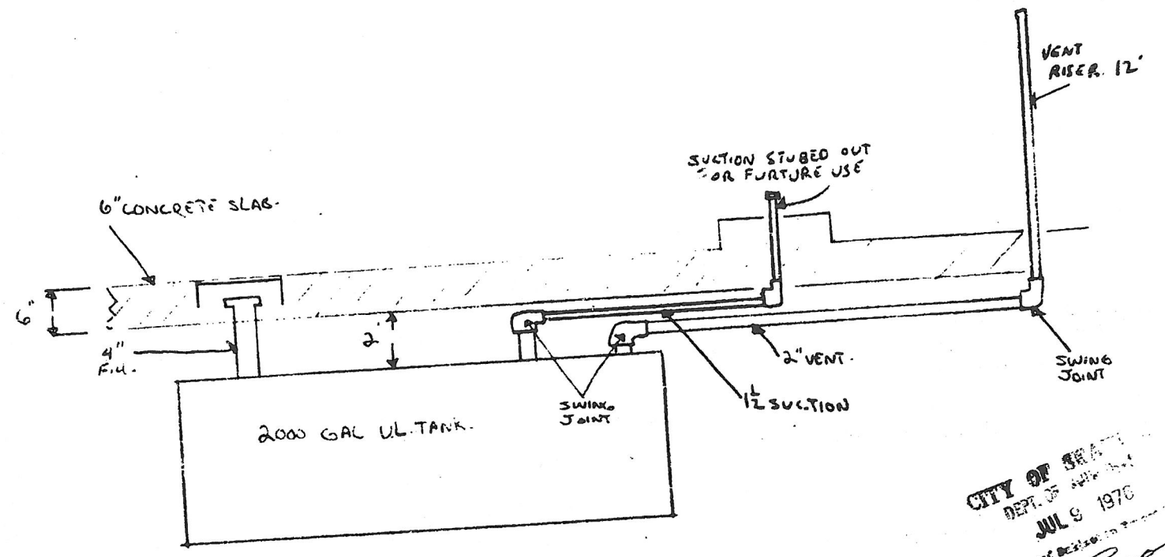


DATE 1-29-41
REVISED 2-10-41
JOB NO 455
SHEET No 2
SET No

A GARAGE BUILDING FOR THE ROY INVESTMENT CO.
TO BE LOCATED ON LOT 1 BLK 31 LAKE UNION SHORE LANDS SEATTLE

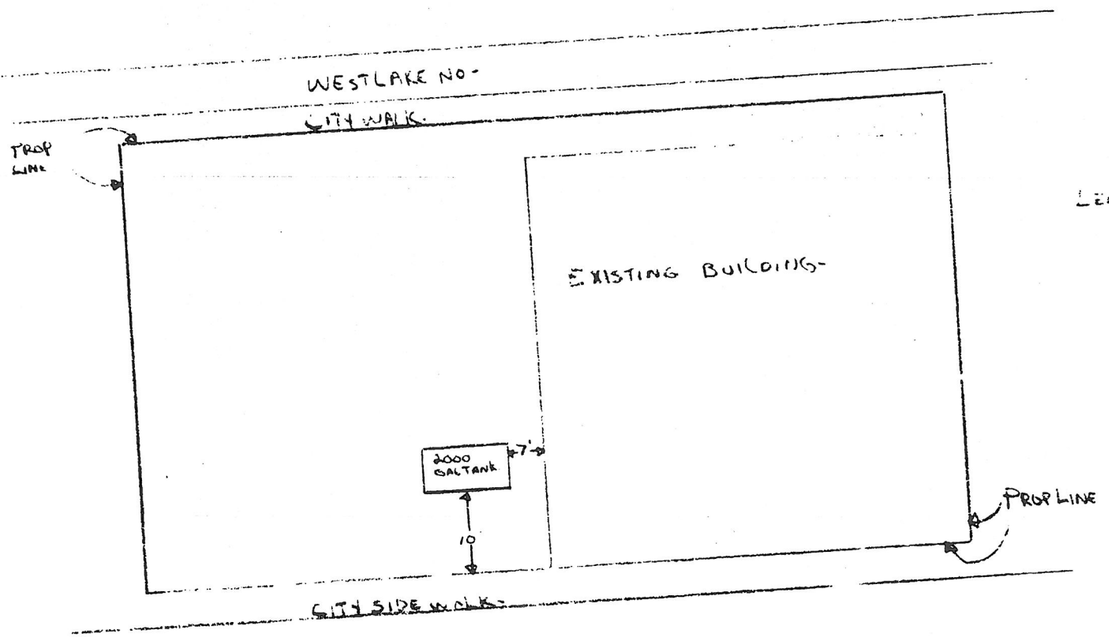
OTIS E. HANSCOM ARCHITECT MARION BUILDING SEATTLE

DRAWN BY
CHECKED BY



CITY OF SEATTLE
DEPT. OF [illegible]
JUL 9 1976
APPROVED [illegible]

1 sht.

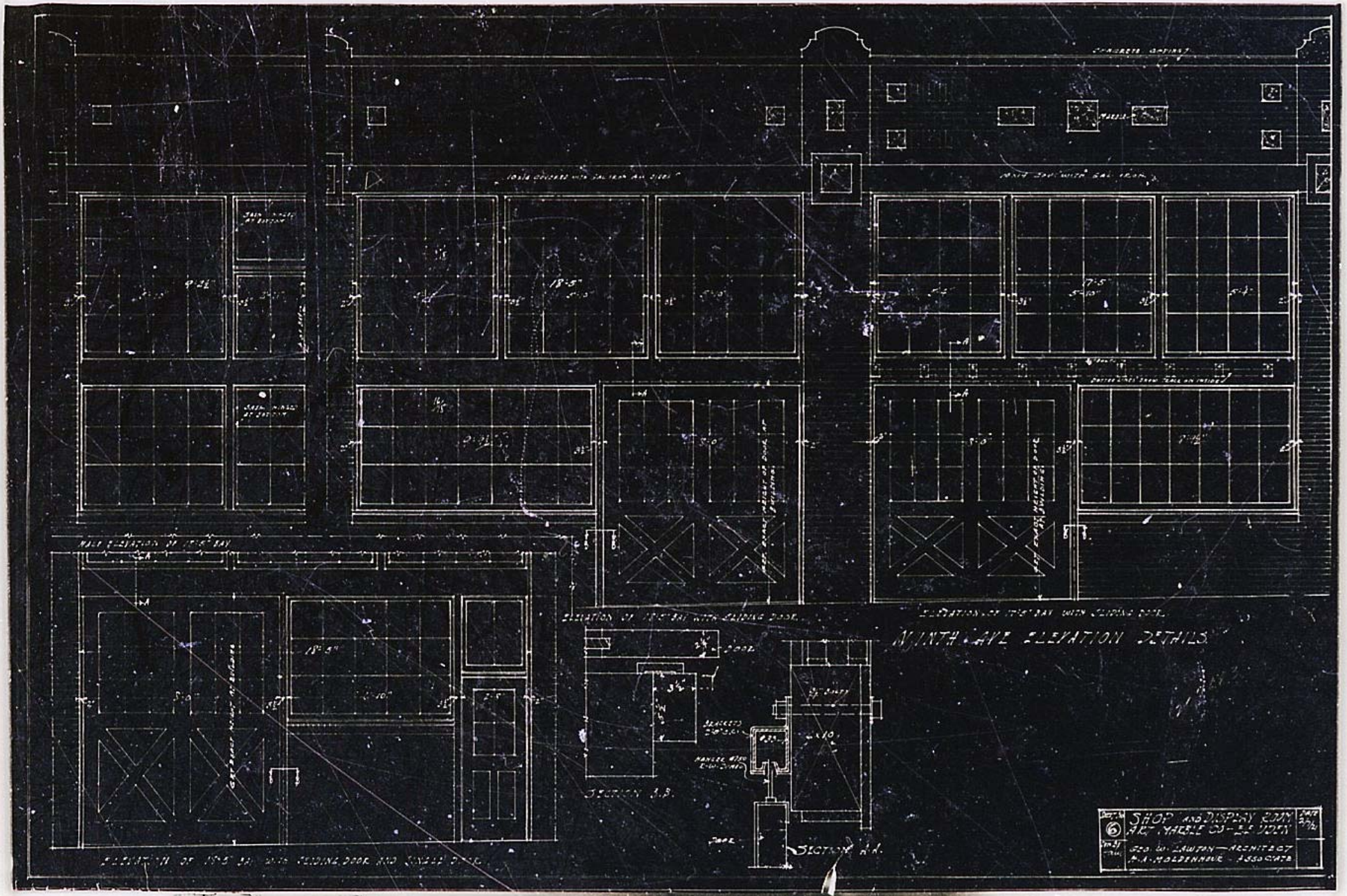


731 WESTLAKE NO.

LEGAL: LOT 445 BLOCK 81
LAKE UNION SHORELANDS
ADDITION TO CITY OF SEATTLE

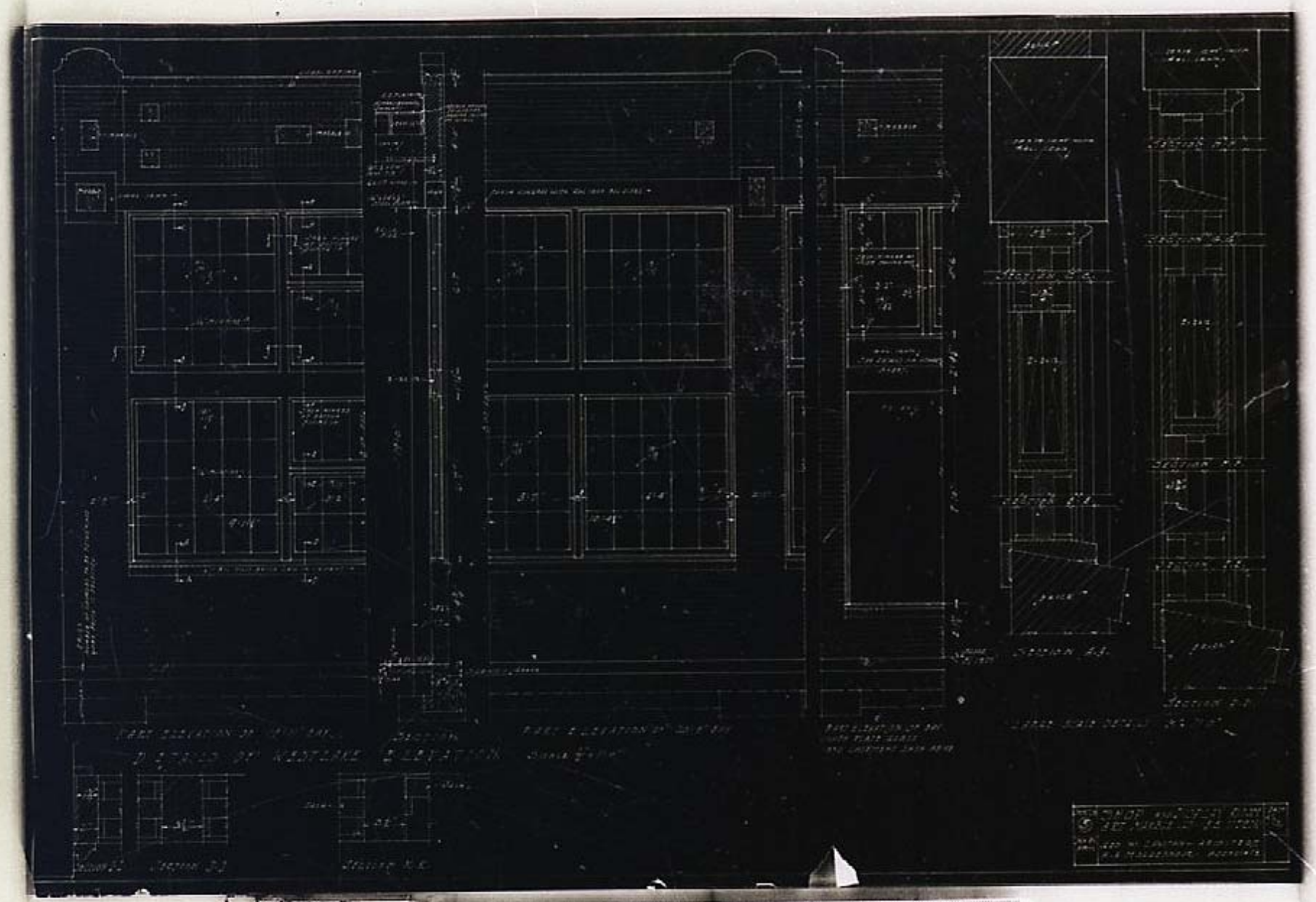
584525

7-9-76
FRANK KENNEY
731 Westlake Ave. N.
gRO.
Install 2,000 gal. U. g.
fuel storage tank
584525



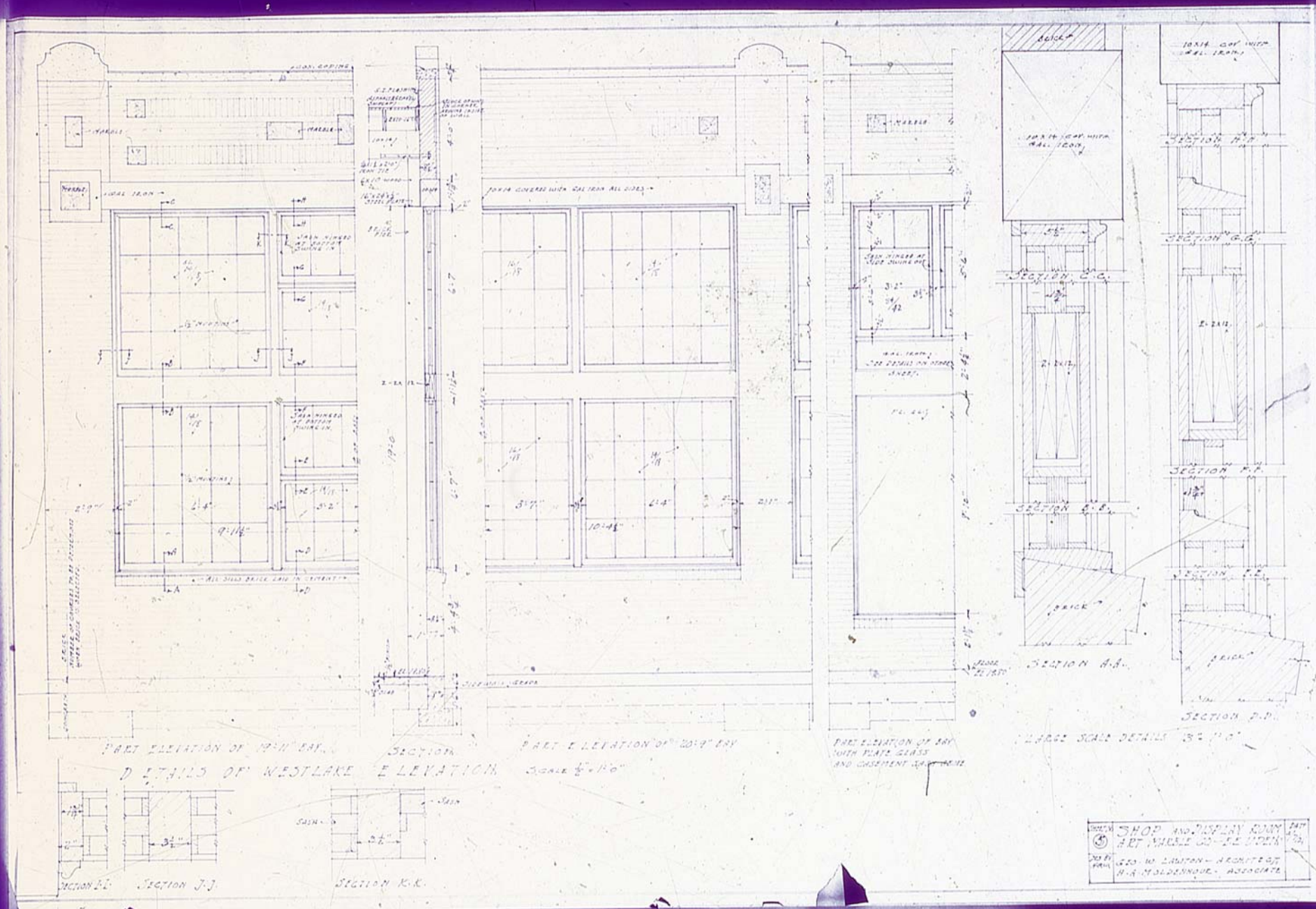
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



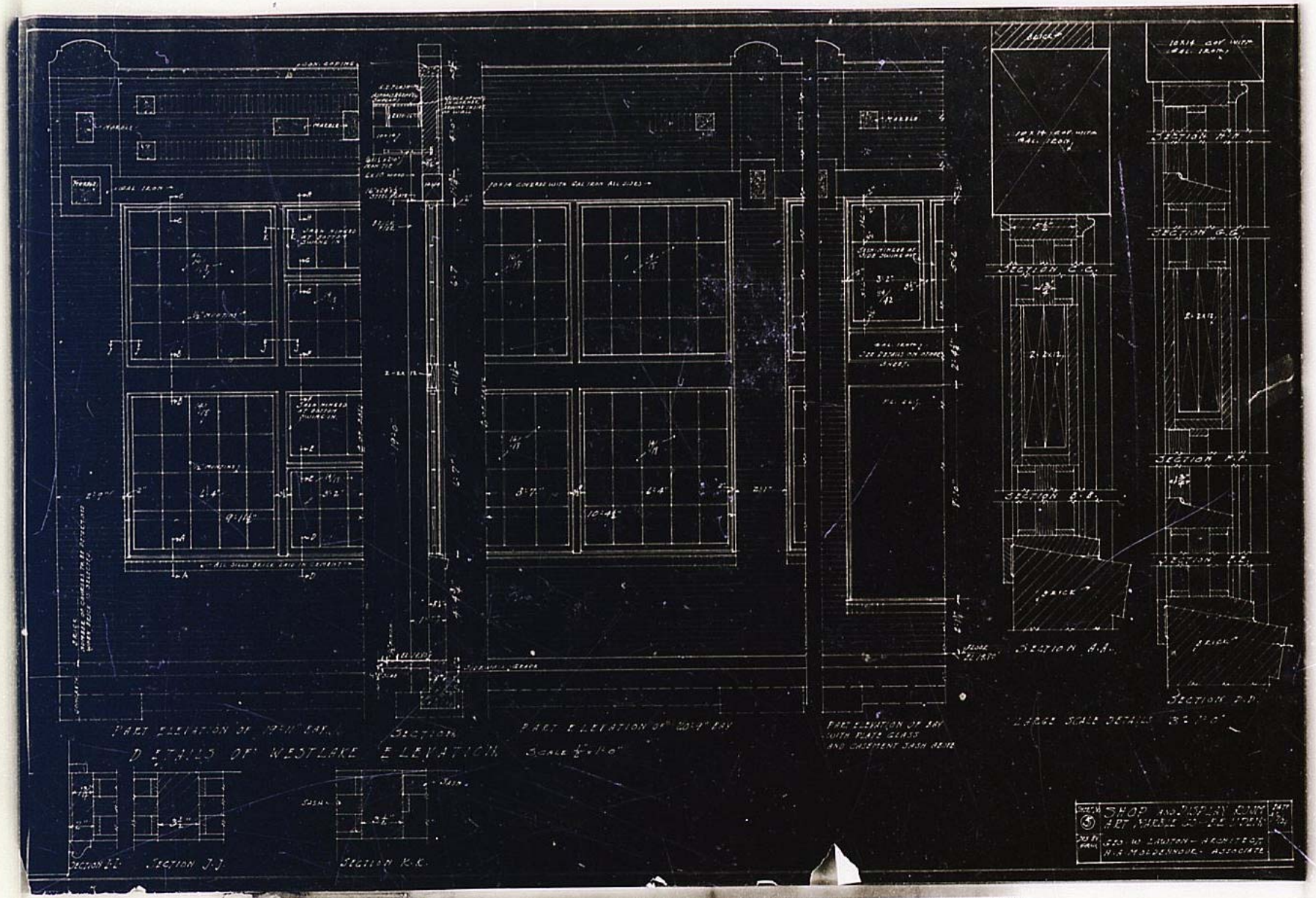
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

16X



NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

16X



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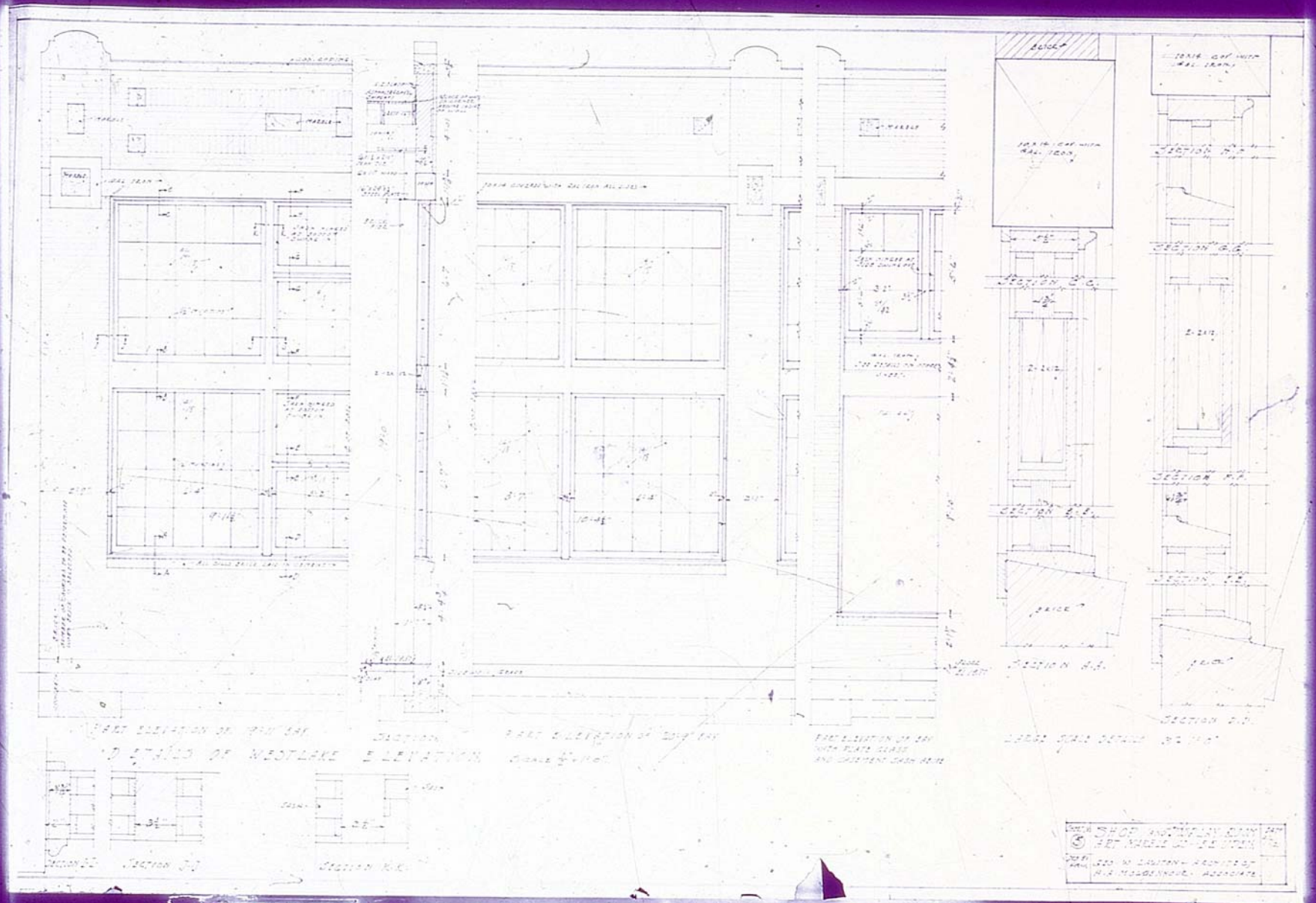
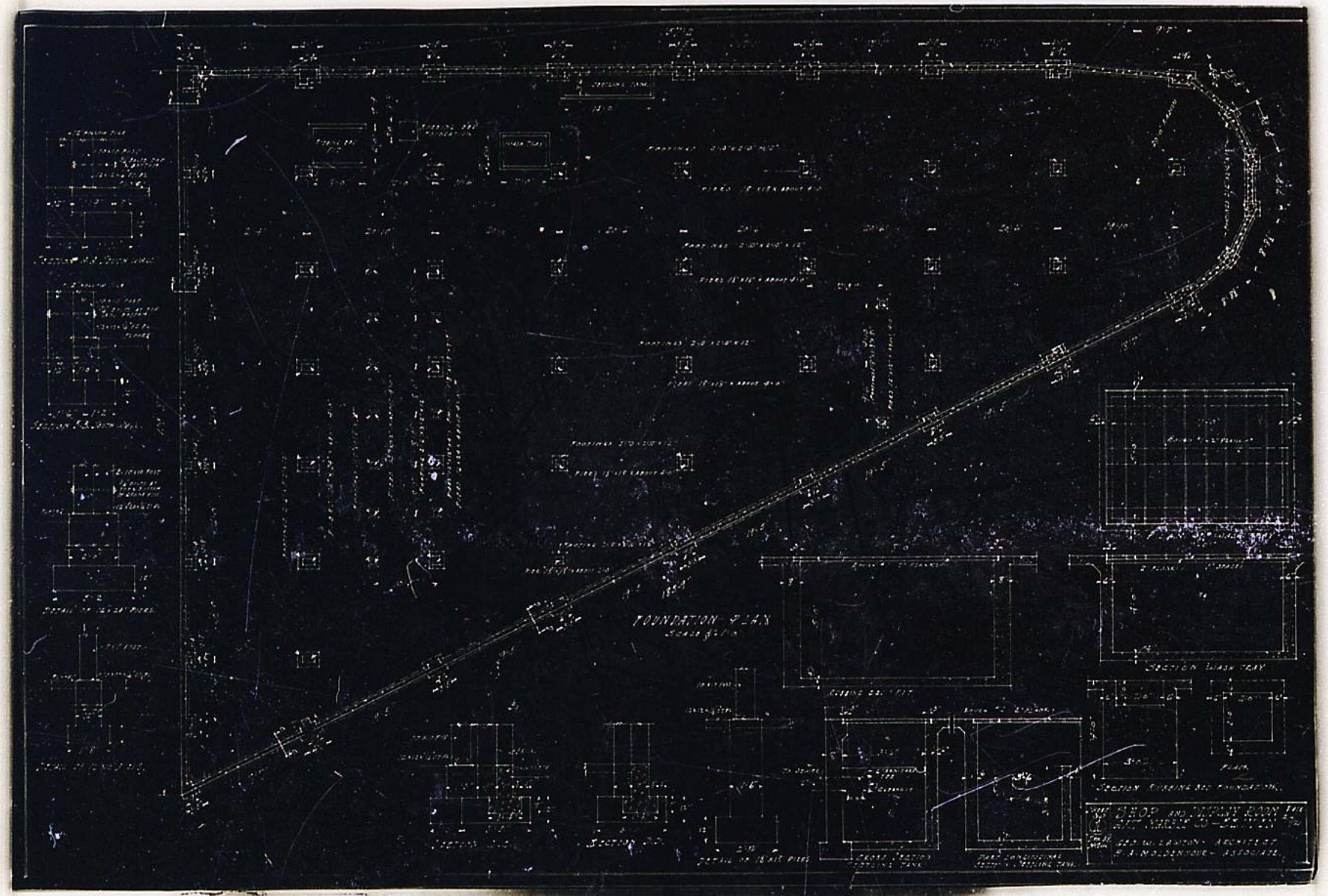
16x



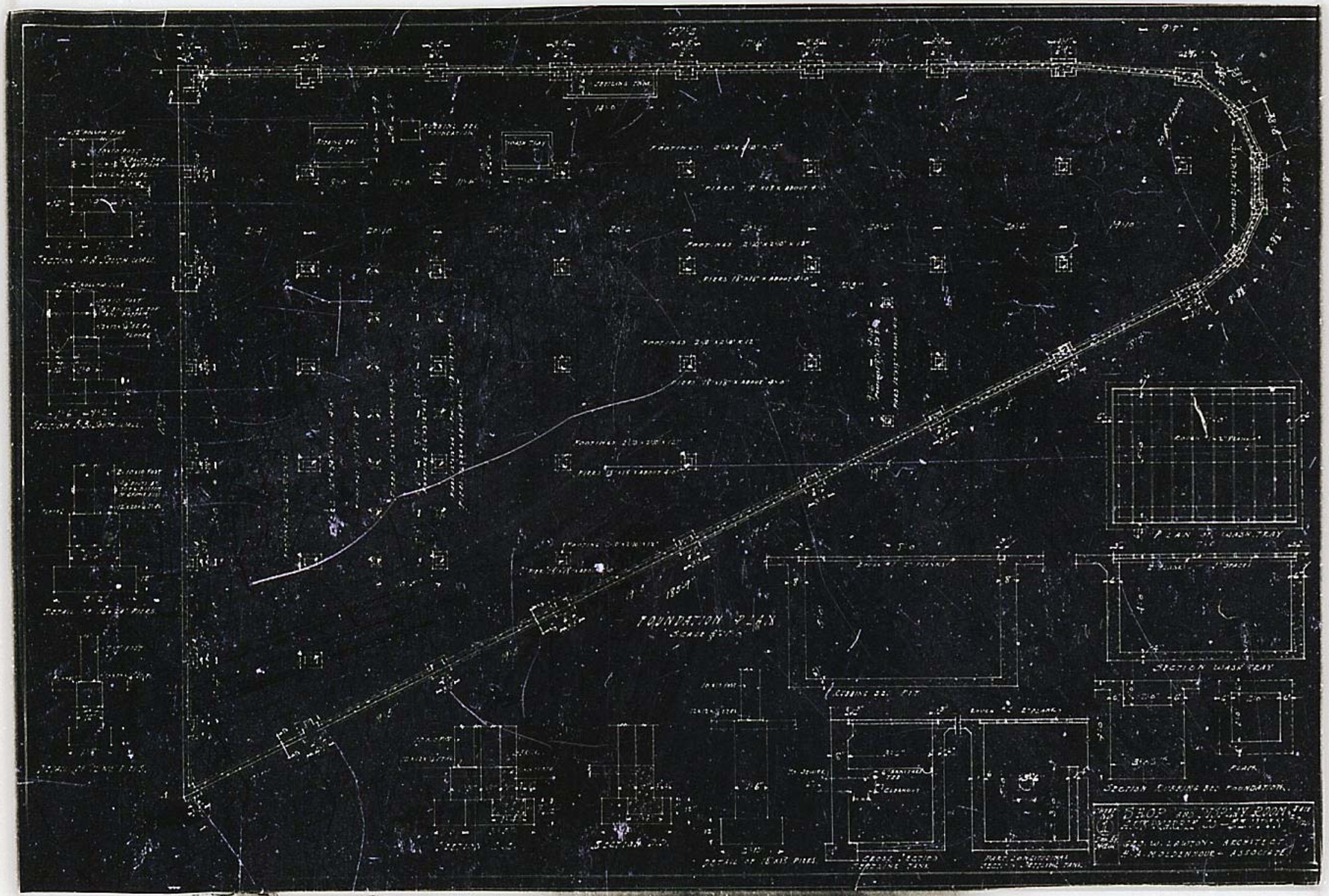
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24X



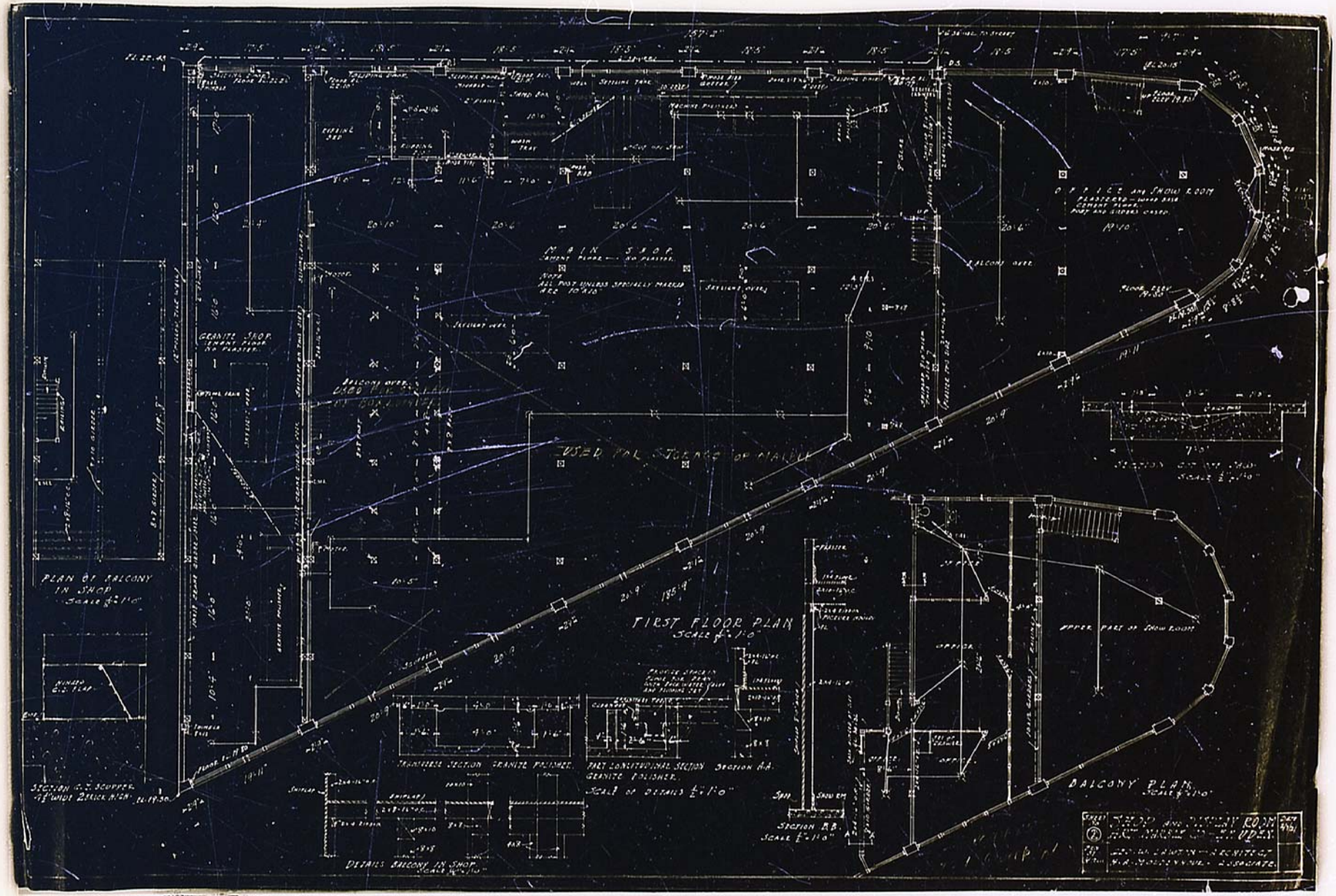
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24x



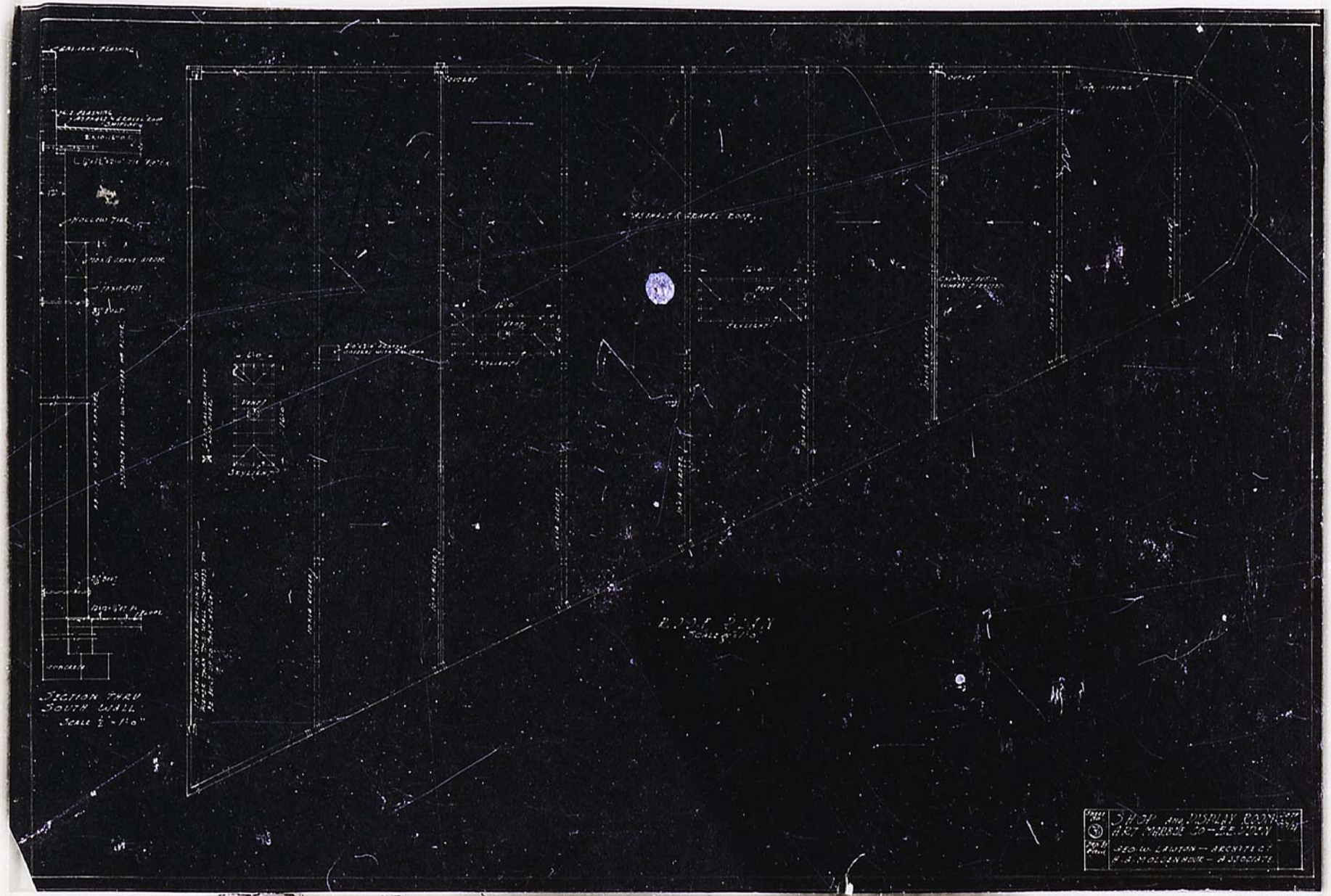
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original

16X



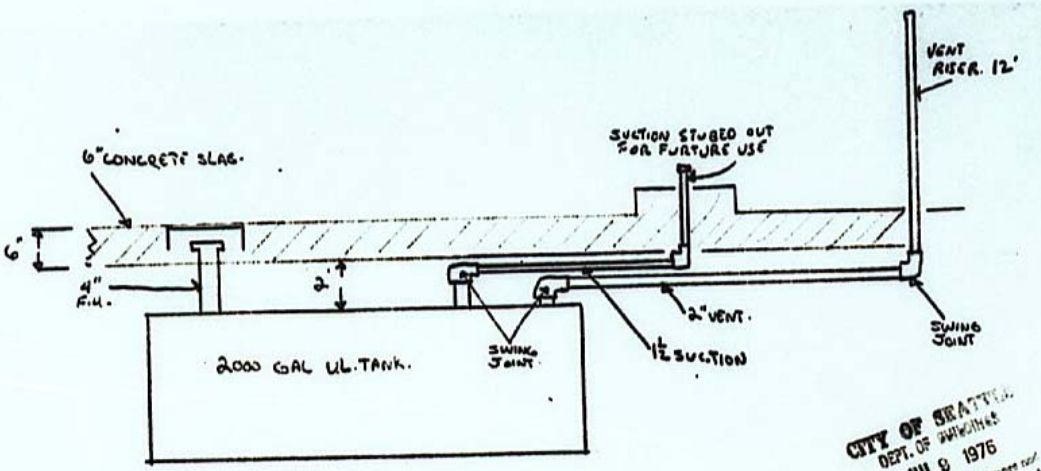
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24x



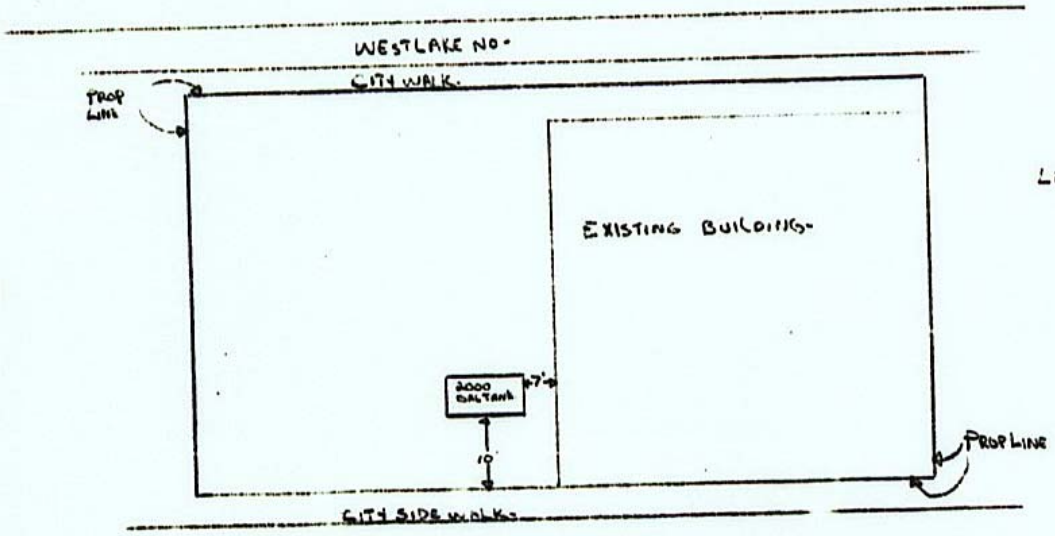
NOTE: If the microfilmed drawing is LESS clear than this notice, it is due to the quality of the original drawing.

24x



CITY OF SEATTLE
DEPT. OF BUILDINGS
JUL 8 1976
Approved Subject to Review by

1 sht.



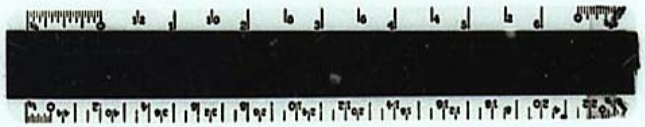
← N

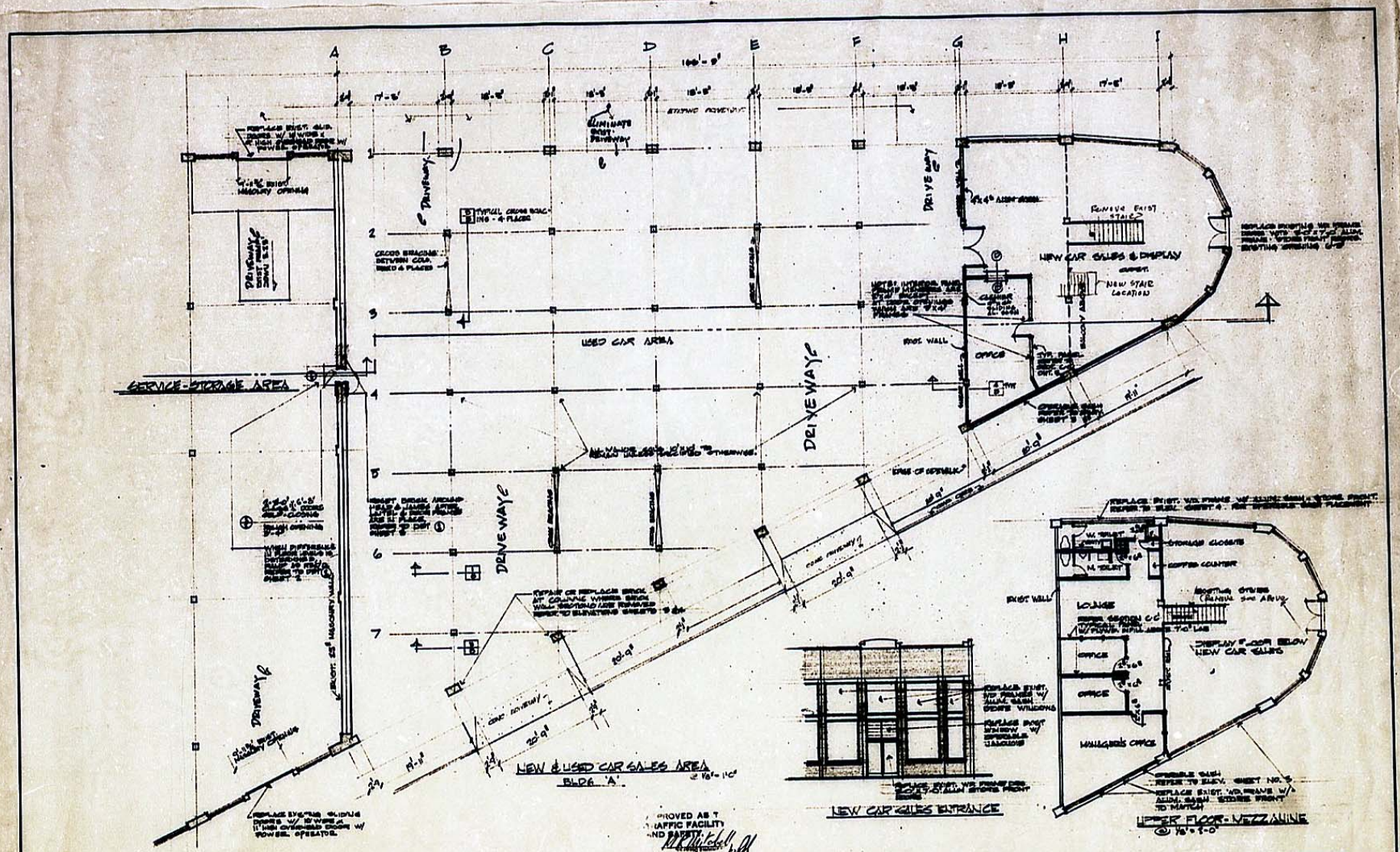
731 WESTLAKE NO.

LEGAL: LOT 4+5 BLOCK 81
LAKE UNION SHORELANDS
ADDITION TO CITY of SEATTLE.

564525

7-9-76
FRANK KENNEY
731 Westlake Ave. N.
980.
Install 2,000 gal. U. G.
fuel storage tank
564525



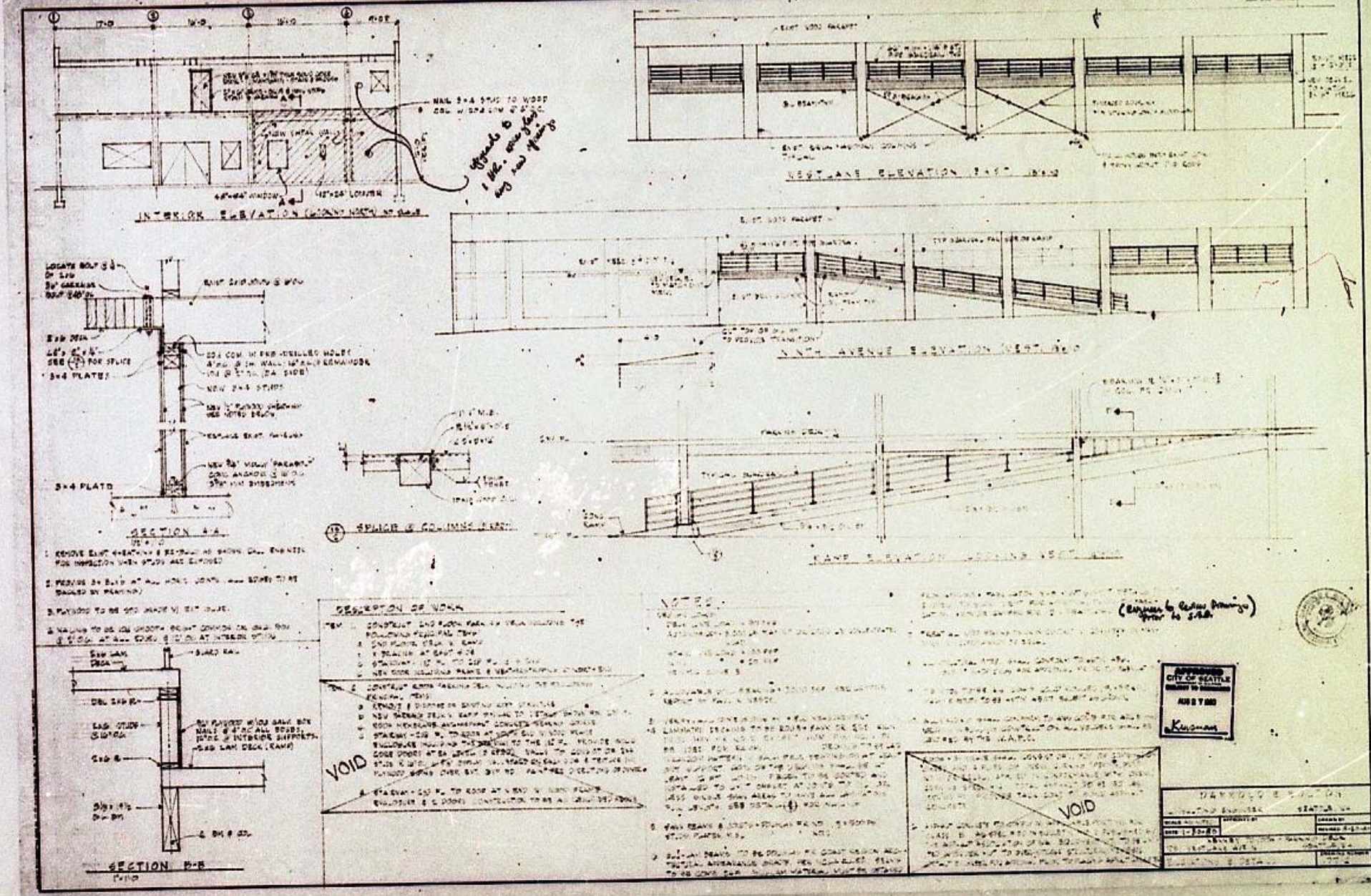


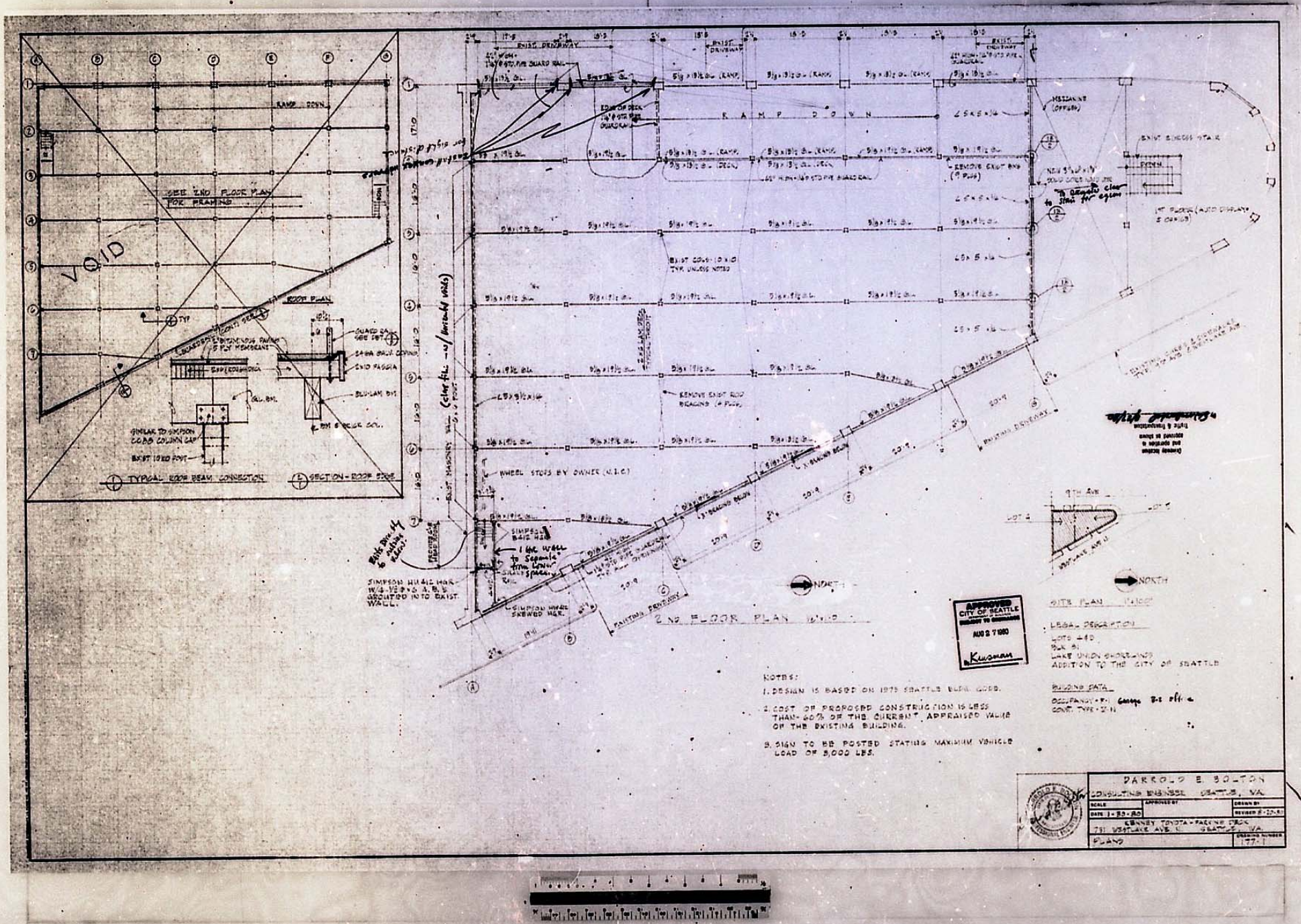
JOB NO.
DRAWN JRI.
CHECKED
DATE 29 JAN 69
REVISED

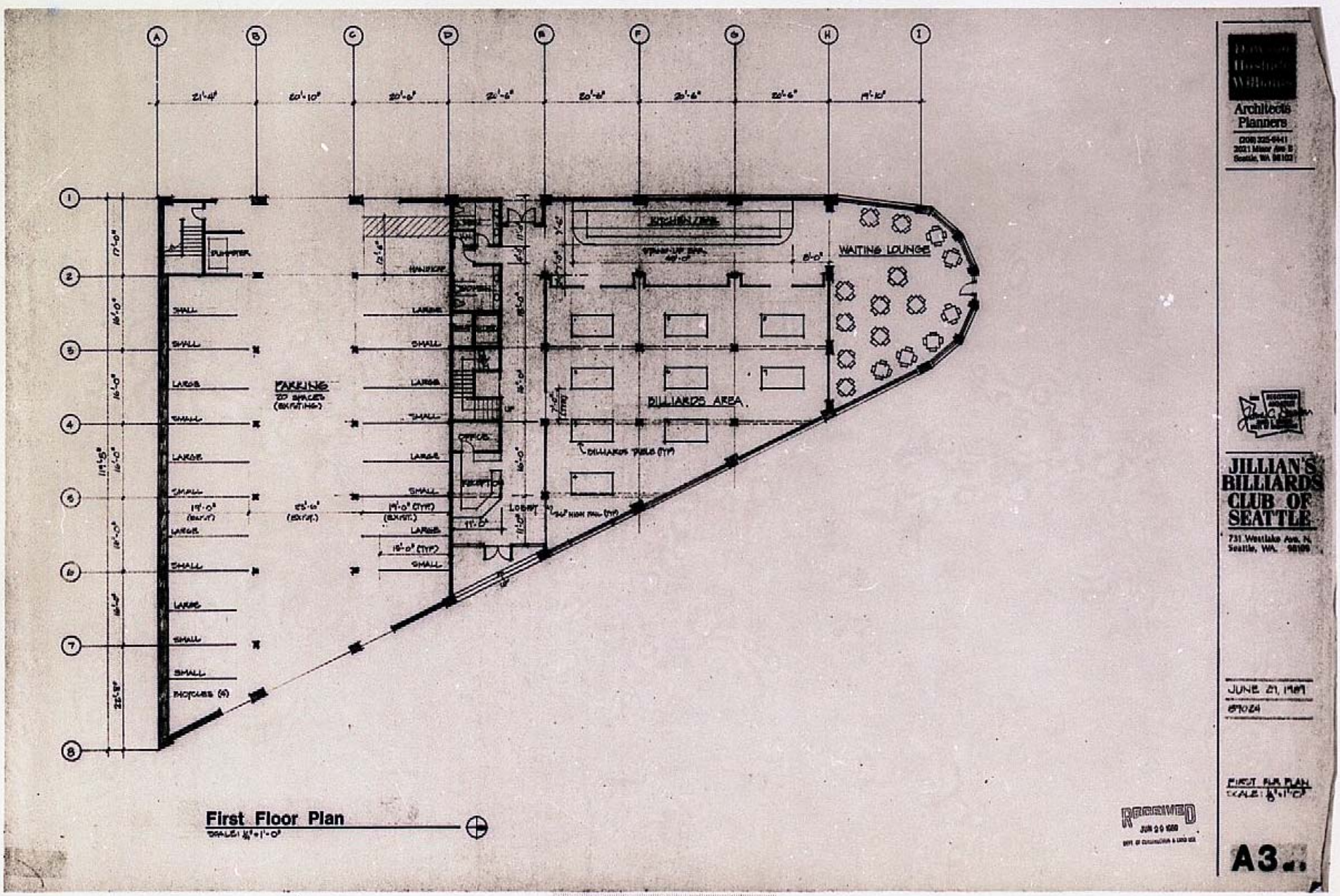
TITLE REMODEL OF SCOTT'S TOYOTA CENTER
LOCATION 9th & WESTLAKE SEATTLE, WASHINGTON
OWNER For: Mr. C. SCOTT

ROBERT E. YOUNG
ARCHITECT
1110 N. 175TH, SEATTLE · LI. 2-3193

1/5


INTERIOR ELEVATION
WEST LANE ELEVATION
SECTION A-A
SECTION B-B
SPLICE & COLUMN
DESCRIPTION OF WORK
NOTES
VOID
VOID
APPROVED
CITY OF SEATTLE
AUG 1980


RAMP DOWN
VOID
SEE 2ND FLOOR PLAN FOR FRAMING
ROOF PLAN
TYP
TYPICAL ROOF BEAM CONNECTION
SECTION - ROOF SIDE
2ND FLOOR PLAN
NORTH
WHEEL STOPS BY OWNER (N.I.C.)
EXIST. DRIVEWAY
NEW DRIVEWAY
EXIST. ENCLOSURE
EXIST. CROSS STAIR
REMOVE EXIST. RAMP
REMOVE EXIST. ROOF
EXIST. MASONRY WALL
SIMPSON HUS412 HGR.
SIMPSON HHGR
SKEWED HGR.
9TH AVE
WESTLAKE AVE N
SITE PLAN
NOTES:
1. DESIGN IS BASED ON 1979 SEATTLE BLDG. CODE.
2. COST OF PROPOSED CONSTRUCTION IS LESS THAN 60% OF THE CURRENT APPRAISED VALUE OF THE EXISTING BUILDING.
3. SIGN TO BE POSTED STATING MAXIMUM VEHICLE LOAD OF 5,000 LBS.
APPROVED
CITY OF SEATTLE
AUG 2 7 1980
Kusman
LEGAL DESCRIPTION
LOTS 1-10
BLK 61
LAKE UNION SHORELANDS
ADDITION TO THE CITY OF SEATTLE
BUILDING DATA
OCCUPANCY - B-1 Garage & office
CONST. TYPE - V-N
DARROLD E. BOLTON
CONSULTING ENGINEER SEATTLE, WA.
KENNEY TOYOTA - PARKING DECK
731 WESTLAKE AVE. N. SEATTLE, WA.
PLANS



Architects
Planners
(206) 325-9441
2021 Minor Ave E
Seattle, WA 98102

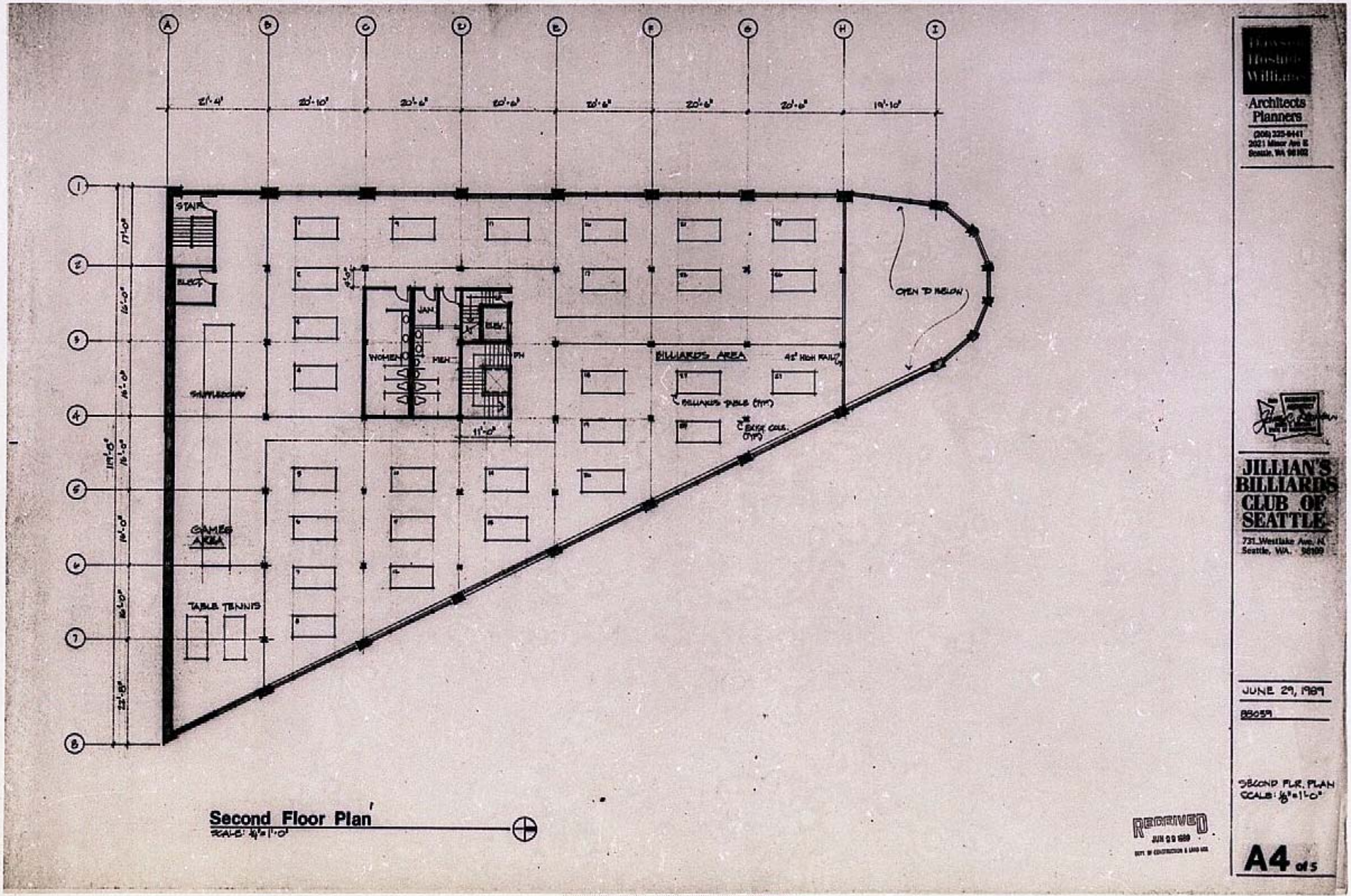
JILLIAN'S BILLIARDS CLUB OF SEATTLE
731 Westlake Ave. N.
Seattle, WA. 98109

JUNE 21, 1989
870124

FIRST FLR PLAN
SCALE: 1/8"=1'-0"

RECEIVED
JUN 29 1989
DEPT. OF CONSTRUCTION & LAND USE

A3



Second Floor Plan
SCALE: 1/8"=1'-0"

RECEIVED
JUN 29 1989
DEPT. OF CONSTRUCTION & LAND USE

Dossett Hoshide Williams
Architects
Planners
(206) 223-9441
2021 Minor Ave E
Seattle, WA 98102

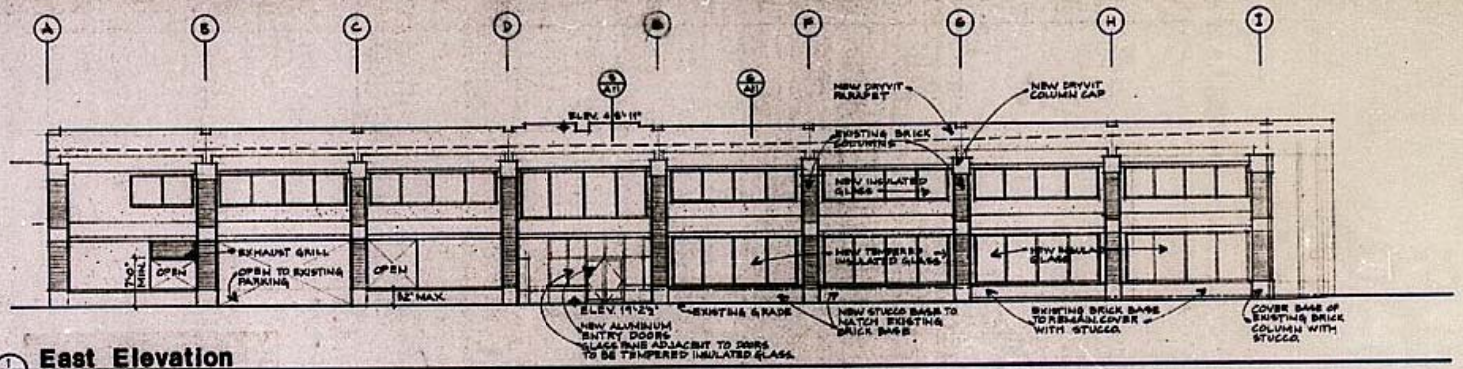
JILLIAN'S BILLIARDS CLUB OF SEATTLE
731 Westlake Ave. N.
Seattle, WA. 98109

JUNE 29, 1989

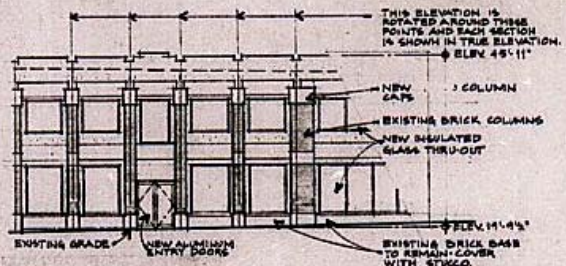
88059

SECOND FLR. PLAN
SCALE: 1/8"=1'-0"

A4 of 5

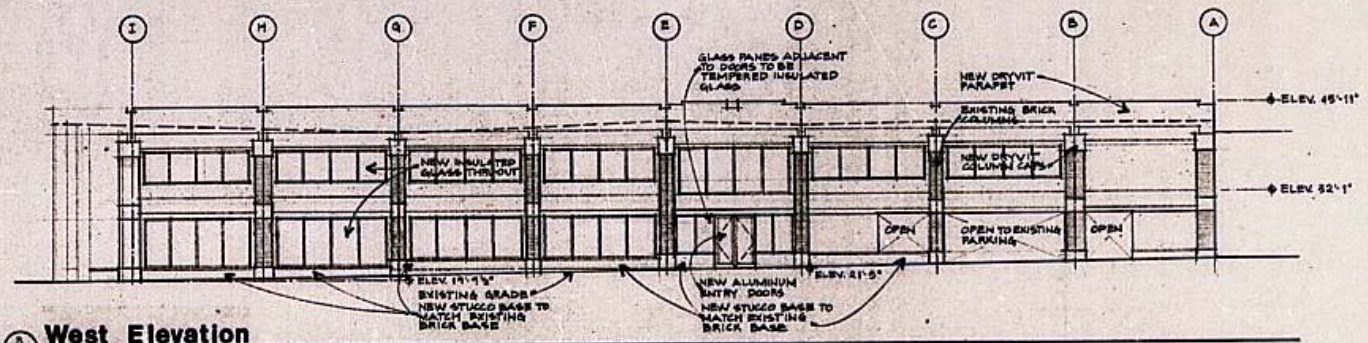


1/A5 **East Elevation**
SCALE: 1/8"=1'-0"



2/A5 **North Elevation**
SCALE: 1/8"=1'-0"

NOTE.
ALL ELEVATION WORK SHOWN HERE IS EXISTING. NO CHANGES THIS PERMIT.



2/A5 **West Elevation**
SCALE: 1/8"=1'-0"

NOTES
1. ALL LOWER FLOOR STUCCO IS ⅞" OVER ALL THICKNESS (OR ⅞" SKIN COAT OVER BRICK) WITH A DRYVIT ACRYLIC FINISH COAT.
2. ALL UPPER FLOOR AND PARAPET WALL FINISH SHALL BE A DRYVIT EXTERIOR INSULATION AND FINISH SYSTEM WITH AN ACRYLIC FINISH COAT.
3. SEE SHEET A-11 FOR DETAILS OF EXTERIOR FINISH MATERIALS.

RECEIVED
JUN 29 1999
DEPT. OF CONSTRUCTION & LAND USE

Pass ∞ Hasbrouck Williams
Architects Planners
(206) 325-6441
2021 Minor Ave E
Seattle, WA 98102

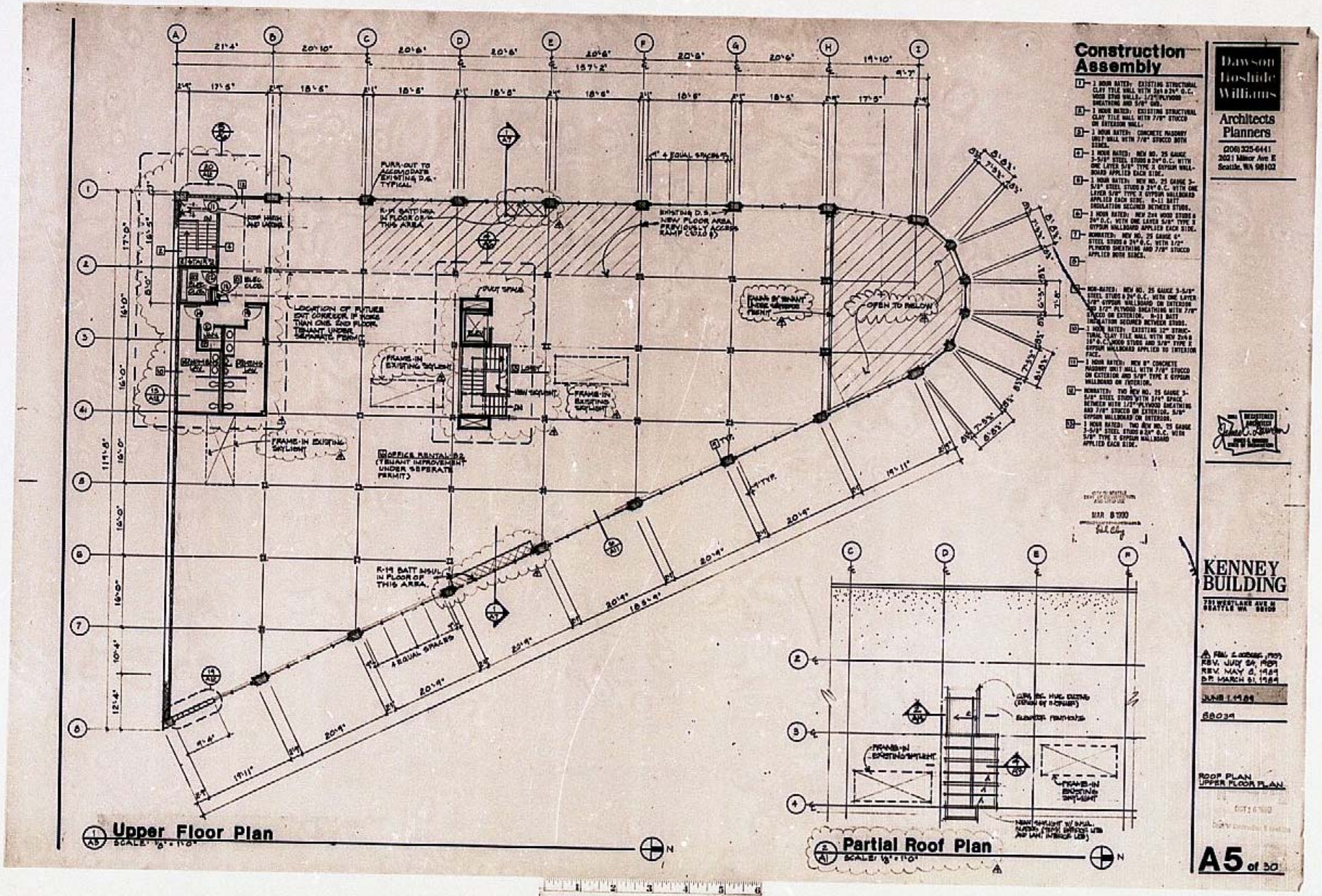
REGISTERED ARCHITECT

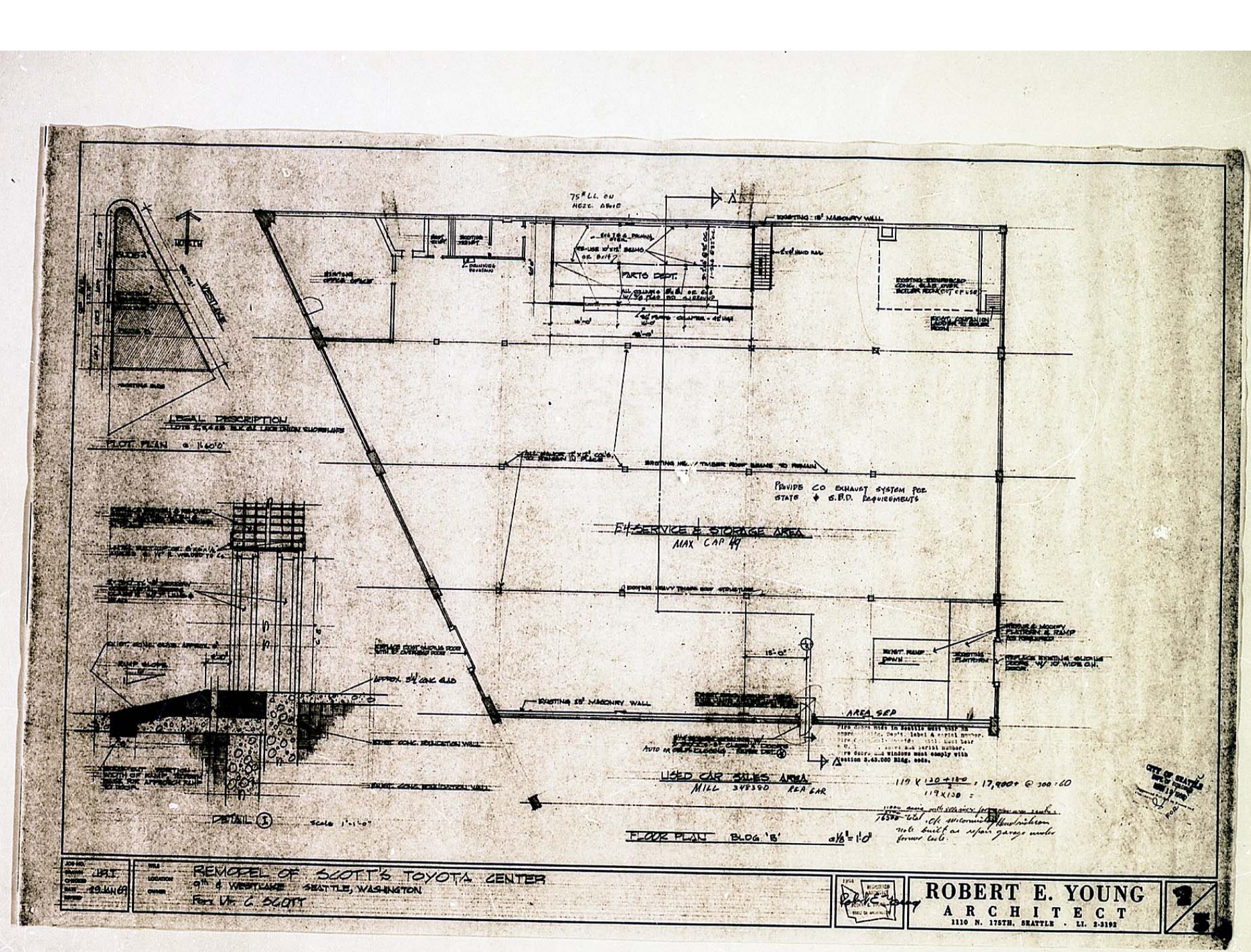
JILLIAN'S BILLIARDS CLUB OF SEATTLE
731 Westlake Ave. N.
Seattle, WA. 98109

JUNE 29, 1999
99024

EAST ELEVATION
NORTH ELEVATION
WEST ELEVATION

A5 of 5


Upper Floor Plan
SCALE: 1/8" = 1'-0"
Partial Roof Plan
SCALE: 1/8" = 1'-0"
Construction Assembly
Dawson Hoshide Williams
Architects
Planners
(206) 325-6441
2021 Minor Ave E
Seattle, WA 98102
KENNEY BUILDING
A5 of 30
ROOF PLAN
UPPER FLOOR PLAN


NORTH
LEGAL DESCRIPTION
PLOT PLAN
PARTS DEPT.
EXISTING 18' MASONRY WALL
EXISTING 28' MASONRY WALL
Provide CO exhaust system per state & S.B.D. requirements
SERVICE & STORAGE AREA
MAX CAP 49
USED CAR SALES AREA
MILL 348580 REA 6AR
AREA SEP
DETAIL 1
Scale 1"=1'-0"
FLOOR PLAN BLOG 'B' 1/8"=1'-0"
REMODEL OF SCOTT'S TOYOTA CENTER
9th & WESTLAKE SEATTLE, WASHINGTON
ROBERT E. YOUNG
ARCHITECT
1110 N. 175TH. SEATTLE · LI. 2-3192

design +, inc.
4723 winchester road
louisville, kentucky 40207
502-893-0292

NEW EQUIPMENT:

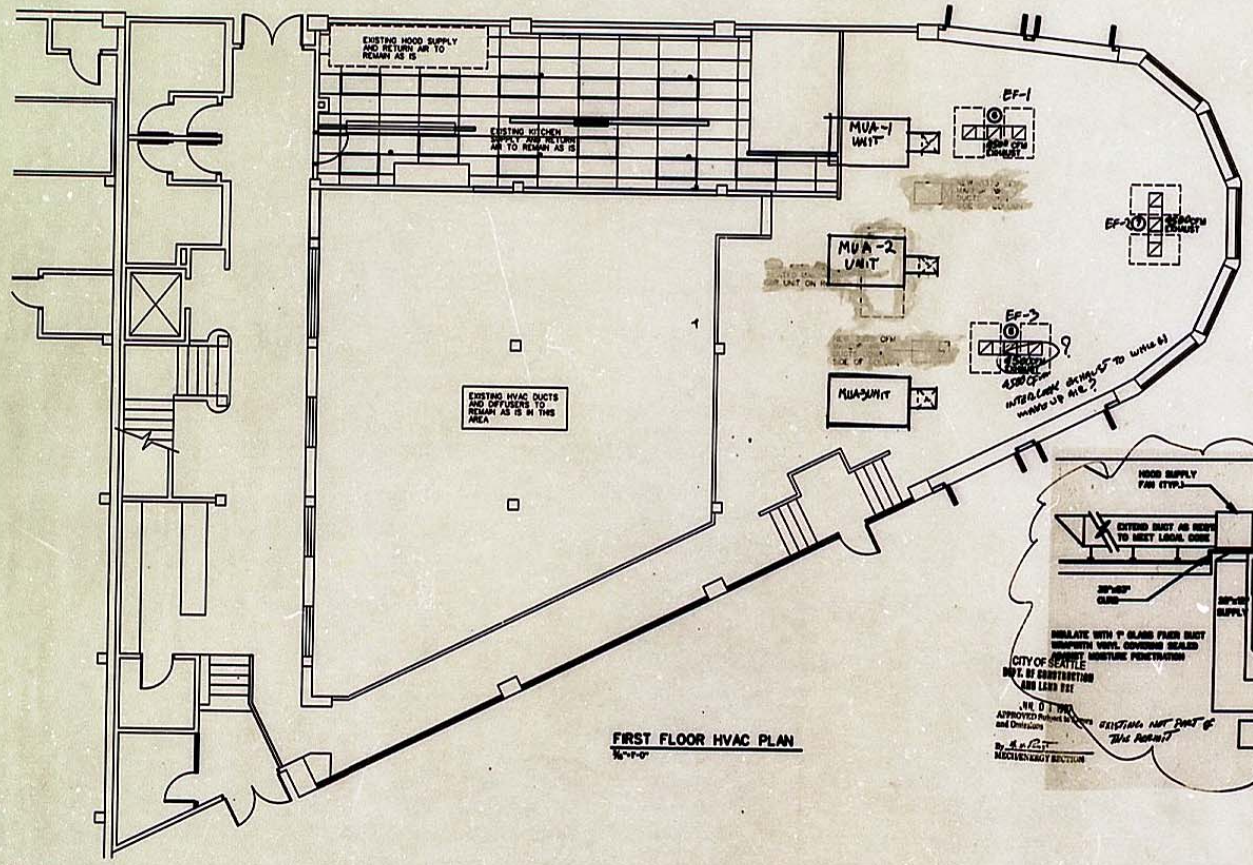
(3) MUA UNITS: REZNOR HAGB-400
4500 CFM ; 400,000 BTUH INPUT
.75" S.P 308,000 BTUH OUTPUT
2 HP

(3) EXHAUST FANS, PENN FX 24B
UPBLAST, GREASE LADLED, 4500 CFM @ 1" S.P.
1½" H.P

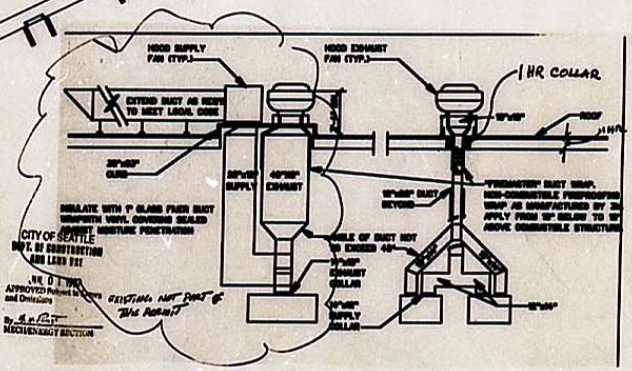
DELETE

SCOPE OF WORK:
MAKE-UP AIR UNIT: NEW U.C.E. MANUFACTURING HEATED MPB-12-600 [illegible]
EXHAUST FANS: [illegible]
REMAINDER OF EXISTING HVAC SYSTEM TO REMAIN AS IS.

NOTE: INTERLOCK MUA UNITS W/ EXHAUST FANS SO THAT WHEN AN EXHAUST FAN IS STARTED, IT'S CORRESPONDING MUA UNIT IS STARTED. I.E. MUA-1 UNDER EF-1



FIRST FLOOR HVAC PLAN
3/16"=1'-0"



CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
APPROVED Subject to Terms and Conditions of this Permit
By: [illegible]
MECHANICAL/ENERGY SECTION

RECEIVED
MAY 05 1987
Dept. of Construction & Land Use

JUL 23 1987

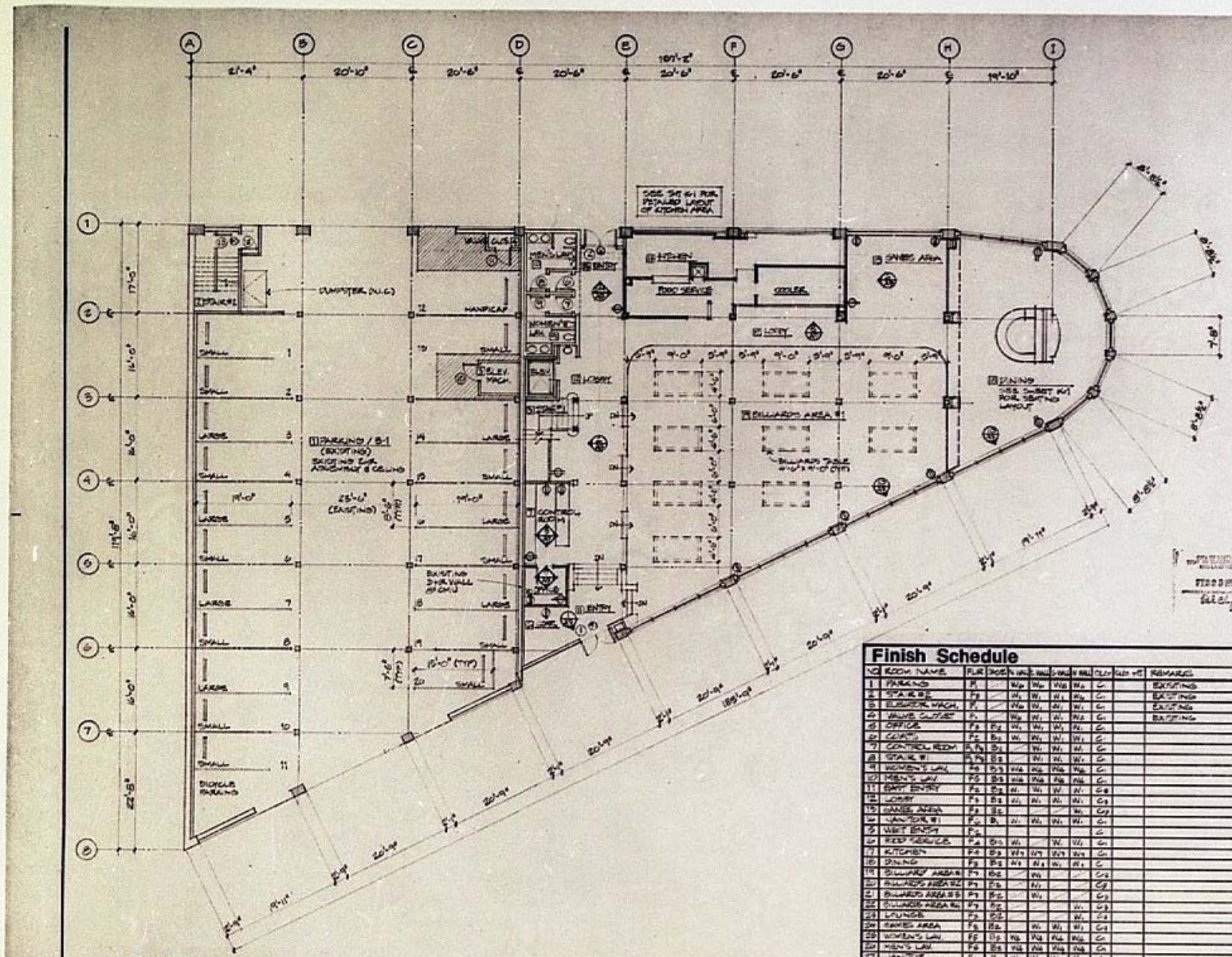
Phase 1 Gillian's ENTERTAINMENT 731 Westlake Ave. N. Seattle, WA. 98109

REGISTERED ARCHITECT

DRAWN BY: johnson
CHECKED BY: johnson
DATE: april 15, 1987
REVISIONS:

SHEET TITLE: FIRST FLOOR HVAC PLAN

SHEET NUMBER: M1



First Floor Plan

SCALE: 1/8" = 1'-0"

Finish Schedule

NO	ROOM NAME	FLR	BASE	N WALL	S WALL	E WALL	W WALL	CLG	CLG HT	REMARKS
1	PARKING	F1	-	Wp	Wp	Wp	Wp	C1		EXISTING
2	STAIR 2	F3	-	W1	W1	W1	W1	C1		EXISTING
3	ELEVATOR MACH.	F1	-	Wp	W1	W1	W1	C1		EXISTING
4	VALVE CLOSET	F1	-	Wp	W1	W1	W1	C1		EXISTING
5	OFFICE	F2	B2	W1	W1	W1	W1	C1		
6	LOBBY	F2	B2	W1	W1	W1	W1	C1		
7	CONTROL ROOM	F2	B2	-	W1	W1	W1	C1		
8	STAIR #1	F3	B3	-	-	W1	W1	C1		
9	WOMEN'S LAV.	F3	B3	W2	W2	W2	W2	C1		
10	MEN'S LAV.	F3	B3	W2	W2	W2	W2	C1		
11	EAST ENTRY	F2	B2	W1	W1	W1	W1	C2		
12	LOBBY	F3	B2	W1	W1	W1	W1	C1		
13	GAMES AREA	F3	B2	-	-	-	W1	C2		
14	JANITOR #1	F2	B1	W1	W1	W1	W1	C1		
15	WEST ENTRY	F2	-	-	-	-	W1	C1		
16	FOOD SERVICE	F2	B1	W1	-	W1	W1	C1		
17	KITCHEN	F2	B1	W1	W1	W1	W1	C1		
18	DINING	F2	B2	W1	W1	W1	W1	C1		
19	BILLIARD AREA #1	F1	B2	-	W1	-	-	C2		
20	BILLIARD AREA #2	F1	B2	-	W1	-	-	C2		
21	BILLIARD AREA #3	F1	B2	-	W1	-	-	C2		
22	BILLIARD AREA #4	F1	B2	-	-	-	W1	C2		
23	LOUNGE	F1	B2	-	-	-	W1	C2		
24	GAMES AREA	F2	B2	-	W1	W1	W1	C1		
25	WOMEN'S LAV.	F2	B2	W2	W2	W2	W2	C1		
26	MEN'S LAV.	F2	B2	W2	W2	W2	W2	C1		
27	JANITOR	F2	B1	W1	W1	W1	W1	C1		
28	ELEVT. MACH.	F1	B1	W1	W1	W1	W1	C1		
29	WALKWAY	F3	B2	-	-	-	-	C2		
30	WALKWAY	F3	B2	-	-	-	-	C2		

FINISH KEY

FLOOR
F1 CONCRETE SLAB
F2 MARBLE TILE
F3 CARPET
F4 SAFETY FLOORING
F5 CERAMIC TILE
F6 RESILIENT FLOORING
F7 WOOD PLANK

BASE
B1 RESILIENT
B2 WOOD
B3 CERAMIC TILE

WALLS
W1 GYPSUM BOARD
W2 STUCCO
W3 EXPOSED AGGREGATE
W4 CERAMIC TILE
W5 EXISTING BRICK
W6 CMU
W7 PLASTIC LAMINATE
W8 PAINTED
W9 WOOD WAINSCOTING
W10 WOOD PANELING (6'-0" HT)

CEILING
C1 GYPSUM BOARD
C2 ACOUSTICAL TILE
C3 WOOD PANELING

Dawson Hoshide Williams
Architects Planners
(206) 325-6441
2021 Minor Ave E.
Seattle, WA 98102

REGISTERED ARCHITECT

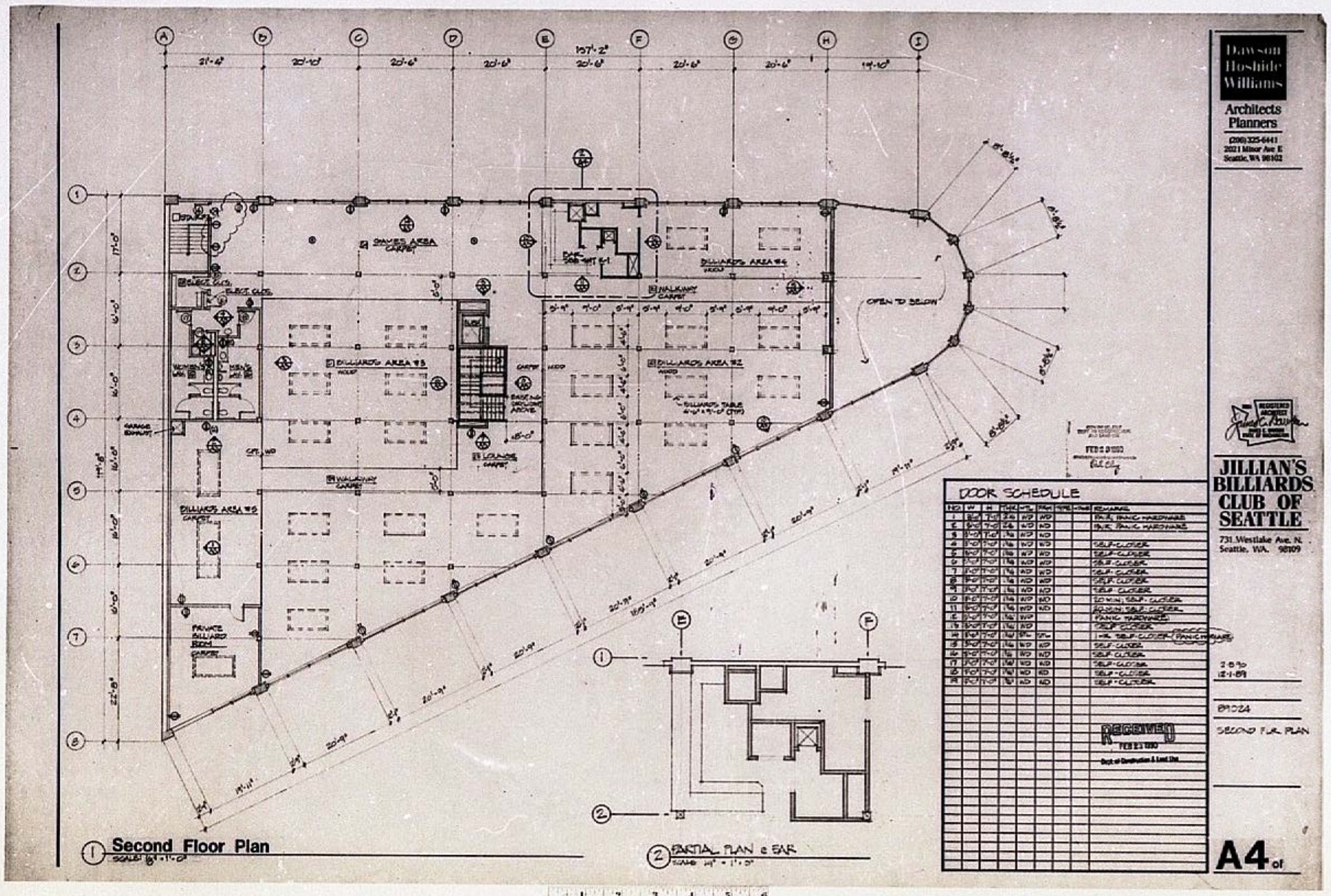
JILLIAN'S BILLIARDS CLUB OF SEATTLE

731 Westlake Ave. N.
Seattle, WA. 98109

12-89
AUGUST 14, 1989
8902A

FIRST FLOOR PLAN
FINISH SCHEDULE

A3 of



1 **Second Floor Plan**
SCALE: 1/8" = 1'-0"

2 PARTIAL PLAN @ BAR
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

NO	W	H	THK	MTL	FIN	TYPE	LOCK	REMARKS
1	3'-0"	7'-0"	1 3/4"	WD	WD			PR. E. PANIC HARDWARE
2	3'-0"	7'-0"	1 3/4"	WD	WD			PR. PANIC HARDWARE
3	3'-0"	7'-0"	1 3/4"	WD	WD			
4	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
5	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
6	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
7	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
8	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
9	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
10	3'-0"	7'-0"	1 3/4"	WD	WD			SOUND SELF-CLOSER
11	3'-0"	7'-0"	1 3/4"	WD	WD			SOUND SELF-CLOSER
12	3'-0"	7'-0"	1 3/4"	WD				PANIC HARDWARE
13	3'-0"	7'-0"	1 3/4"	WD				SELF-CLOSER
14	3'-0"	7'-0"	1 3/4"	WD	WD			1 HR. SELF-CLOSER PANIC HARDWARE
15	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
16	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
17	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER
18	3'-0"	7'-0"	1 3/4"	WD	WD			SELF-CLOSER

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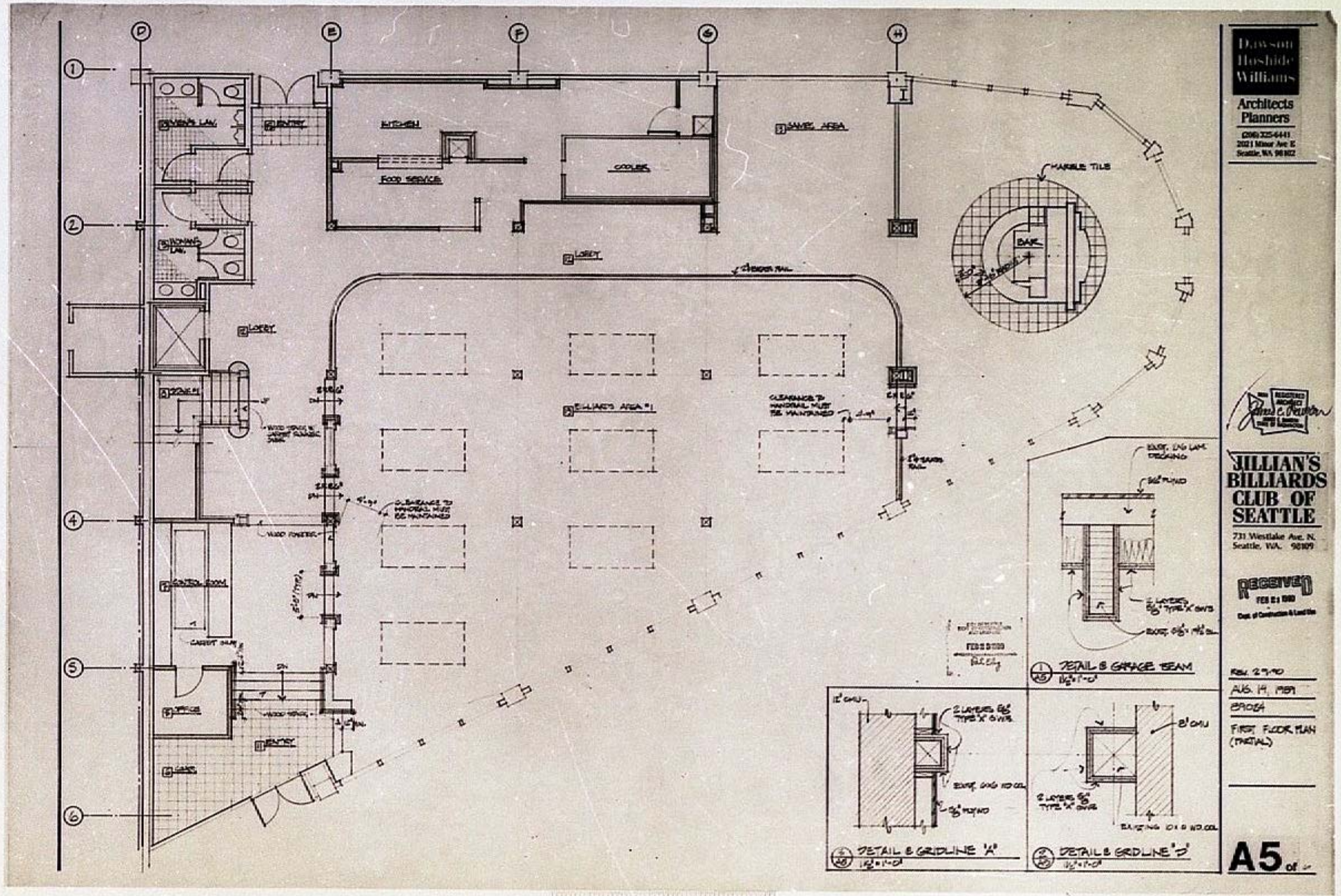
JILLIAN'S BILLIARDS CLUB OF SEATTLE
731 Westlake Ave. N.
Seattle, WA. 98109

12-1-89

89024

SECOND FLR. PLAN

A4 of



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JILLIAN'S BILLIARDS CLUB OF SEATTLE
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Seattle, WA. 98109

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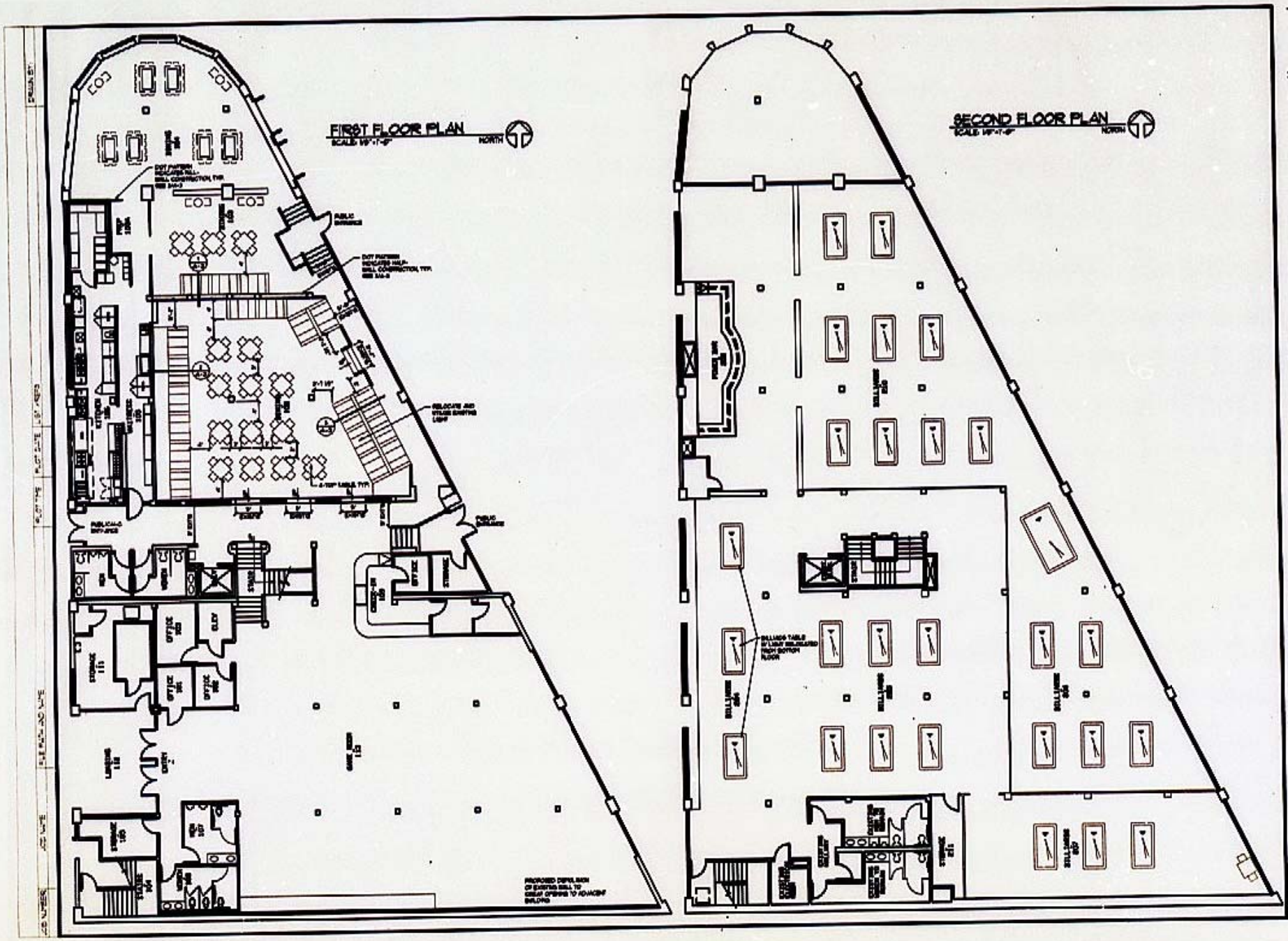
Dept. of Construction & Land Use

Rev. 2-7-90
AUG. 14, 1989
BROSA
FIRST FLOOR PLAN (METAL)

A5 of



WILLIAM POLK ASSOCIATES

ARCHITECTURE/PLANNING/INTERIORS
1300 FIRST AVE., SEATTLE, WASHINGTON
TELEPHONE (206) 624-7337 FAX (206) 624-3914

CITY OF SEATTLE
DEPT. OF CONSTRUCTION AND LAND USE
MAY 17 1999

CONSULTANT
STRUCTURAL

REVISIONS
NO. DESCRIPTION DATE
ADDITIONAL REVISIONS
CONSTRUCTION CHANGES
AS-BUILT CHANGES

DATE
04-21-99

JILLIAN'S
SEATTLE BILLARDS

FLOOR
PLAN

RECEIVED

A-2

APPENDIX C
BORING LOGS

SoundEarth Strategies

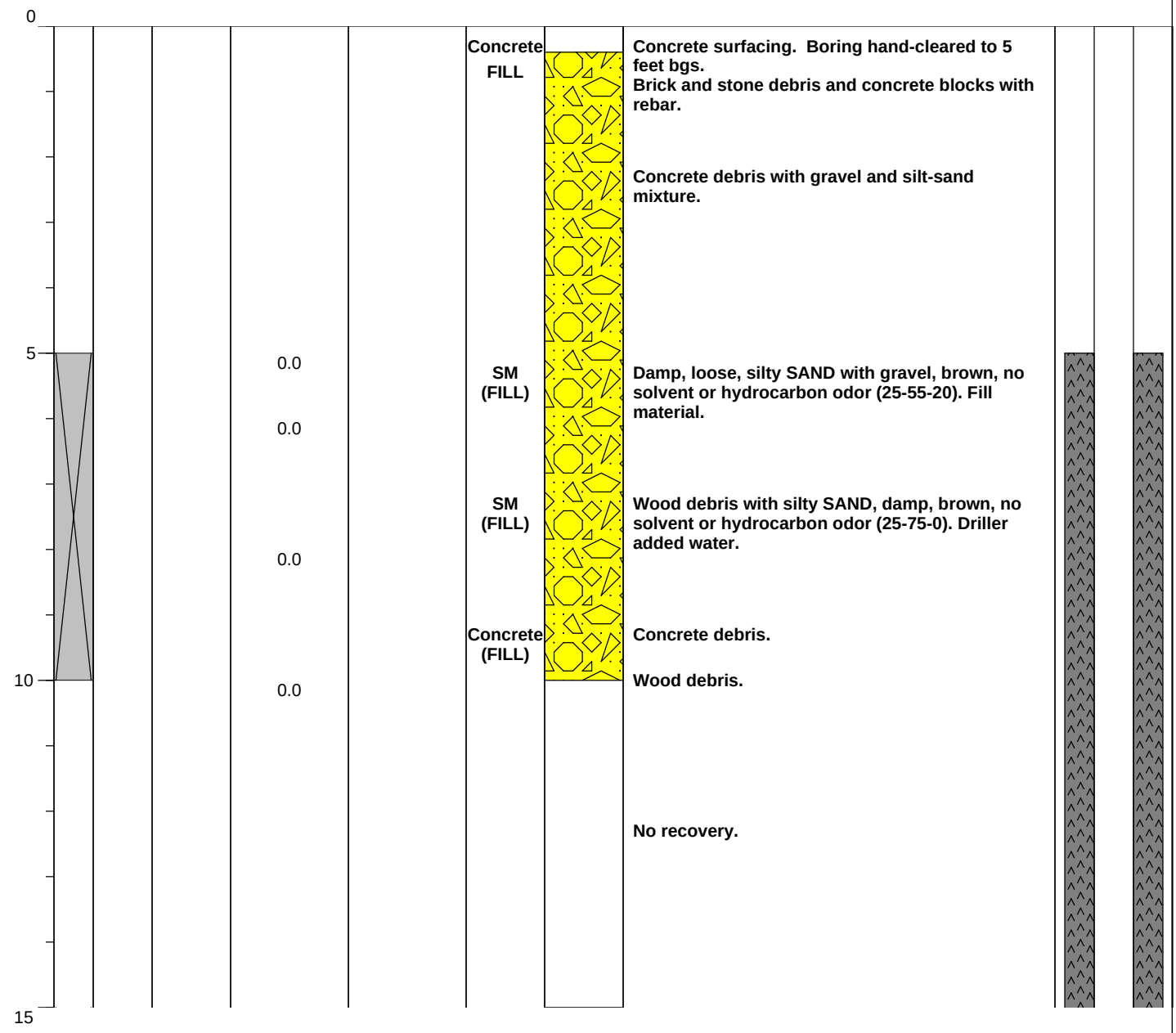
Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH; DMM
Date Started:	7/9/2012
Surface Conditions:	Concrete
Well Location N/S:	10.8' north of the north wall of the warehouse area
Well Location E/W:	28.5' east of the east wall of the auto shop
Reviewed by:	CCC
Date Completed:	7/17/2012

BORING LOG B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs

Water Depth After Completion: -- feet bgs



Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**Concrete surfacing. Boring hand-cleared to 5 feet bgs.**	
						FILL		**Brick and stone debris and concrete blocks with rebar.**	
								Concrete debris with gravel and silt-sand mixture.	
5				0.0		SM (FILL)		**Damp, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (25-55-20). Fill material.**	
				0.0					
						SM (FILL)		**Wood debris with silty SAND, damp, brown, no solvent or hydrocarbon odor (25-75-0). Driller added water.**	
				0.0					
						Concrete (FILL)		**Concrete debris.**	
10				0.0				**Wood debris.**	
								No recovery.	
15									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:

Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH; DMM
Date Started:	7/9/2012
Surface Conditions:	Concrete
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Reviewed by:	CCC
Date Completed:	7/17/2012

BORING LOG B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15									
			20	0.2		SM		**Wet, dense, silty fine to medium SAND with gravel, gray, no solvent or hydrocarbon odor (25-55-20).**	
						SM		**Wet, dense, silty fine to medium SAND with gravel, gray, no solvent or hydrocarbon odor (25-55-20).**	
20				0.0					
25			10						
								Wet, dense, silty fine to medium SAND with gravel, gray, no solvent or hydrocarbon odor (20-65-15).	
				96.5		SM		**Dry, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
30									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:

Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project:	700 Dexter Property
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BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				219	B101-30	SM		**Dry, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (sieve result 37.2/52.4/10.4).**	
				61					
			100			SM		**Damp, very dense, silty medium to fine SAND and gravel, brown, no solvent or hydrocarbon odor (sieve result 21.3/70/8.7).**	
				93.4	B101-34	SP-SM		**Damp, very dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (15-70-15).**	
35				154		SM		**Damp, very dense, silty fine SAND with gravel, gray with brown mottling, no solvent or hydrocarbon odor (20-65-15).**	
				121					
				127		SM		**Damp, very dense, silty fine SAND with gravel, brown with reddish brown mottling, no solvent or hydrocarbon odor (20-70-10).**	
			100						
				60.9				**Dry, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
40				42.1	B101-40				
				29.8				**Dry, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
				57.6		SM-ML		**Dry, very dense, SILT with fine sand and gravel, trace cobbles present, gray, no solvent or hydrocarbon odor (40-50-10).**	
				12.6				**Dry, very dense, SILT with fine sand and gravel, trace cobbles, gray, no solvent or hydrocarbon odor (40-45-15).**	
				49.4					
45									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:

Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH; DMM
Date Started:	7/9/2012
Surface Conditions:	Concrete
Well Location N/S:	10.8' north of the north wall of the warehouse area
Well Location E/W:	28.5' east of the east wall of the auto shop
Reviewed by:	CCC
Date Completed:	7/17/2012

BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45				82.3		SM		**Damp, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
						SP-SM		**Moist, very dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
				56.9	B101-47				
			100						
				53.5		SM		**Moist, very dense, silty fine to medium SAND with gravel, gray, no solvent or hydrocarbon odor (sieve result 28.2/56.0/15.3).**	
				13.8		SM		**Damp, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
50				179		SM		**Moist, very dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10).**	
						ML		**Dry, hard, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (60-25-15).**	
				141					
						SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-70-5).**	
				9.43					
55				9.10	B101-55	SM			
						SM-ML		**Grades to dry to moist, more silt-rich, no solvent or hydrocarbon odor (40-50-10).**	
			100	8.79					
				2.63					
				6.93					
						SM-ML		**Dry, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
60									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:

Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH; DMM
Date Started: 7/9/2012
Surface Conditions: Concrete
Well Location N/S: 10.8' north of the north wall of the warehouse area
Well Location E/W: 28.5' east of the east wall of the auto shop
Reviewed by: CCC
Date Completed: 7/17/2012

BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60				59.5		SM		**Dry, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (35-45-20).**	
				1.3					
			100						
				4.2		SM		**Dry, very dense, silty fine SAND and trace gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
65				1.74	B101-65				
				7.4		SM		**Wet, dense, silty fine SAND and gravel, gray, no solvent or hydrocarbon odor.**	
				7.4					
			95						
				5.4		SM-ML		**Damp, very dense, silty fine SAND and trace gravel, gray, no solvent or hydrocarbon odor (50-45-5).**	
				2.5		SM		**Dry, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
70				0.0		SM		**Dry, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
				0.0		SM		**Dry, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
			100						
						SM		**Dry, very dense silty fine SAND, gray, no solvent or hydrocarbon odor (45-55-0).**	
				0.0		SM		**Damp, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (25-75-0).**	
				0.2	B101-75				
75									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs	Set conductor casing at 40 and 80 feet bgs.
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand		
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount		

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH; DMM
Date Started: 7/9/2012
Surface Conditions: Concrete
Well Location N/S: 10.8' north of the north wall of the warehouse area
Well Location E/W: 28.5' east of the east wall of the auto shop
Reviewed by: CCC
Date Completed: 7/17/2012

BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75						SM-ML		**Dry, very dense, SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (45-50-5).**	
				0.0					
				0.0		SM		**Moist, very dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-55-15).**	
			100	0.0		SM		**Dry, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
				0.2					
80				0.2		SM		**Wet, very dense, silty gravelly fine SAND and few cobbles, gray, no solvent or hydrocarbon odor (55-40-5).**	
					B101-81				
						SM		**Moist, very dense, silty fine SAND and trace cobbles, gray, no solvent or hydrocarbon odor (40-55-5).**	
				0.0					
85			100	0.0		SM-ML		**Dry, very hard, silty gravelly fine to medium sandy SILT with some gravel, gray, no solvent or hydrocarbon odor (45-35-20).**	
				0.0					
						SM		**Damp, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
				1.1		SM		**Moist, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
90									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs	Set conductor casing at 40 and 80 feet bgs.
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand		
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount		

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
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Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90				0.9		SP		**Wet, dense, medium to fine SAND with trace silt, gray, no solvent or hydrocarbon odor (5-95-0).**	
				0.1	B101-92				
				0.1		SM		**Wet, dense, silty medium SAND, gray, no solvent or hydrocarbon odor (20-80-0).**	
				0.1					
95			100	0.0		SP-SM		**Wet, dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (15-85-0).**	
				0.0	B101-97				
				0.0		SM		**Damp, very dense silty fine to medium SAND, gray, no solvent or hydrocarbon odor (35-65-0).**	
				0.1					
100				0.0		SP-SM		**Wet, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (5-90-5).**	
				0.0					
				0.0		SP-GP		**Wet, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (sieve result 8.8/43.5/47.7).**	
				0.0	B101-104	SP-SM		**Wet, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
			100						
105									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches	**Notes/Comments:**	
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs	Set conductor casing at 40 and 80 feet bgs.	
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches		
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand			
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete			
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Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
105				0.0		SM		**Damp, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
				0.0		SP-SM		**Moist, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
				0.0		SM		**Damp, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
				0.1		SP-SM		**Wet, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10).**	
110				0.0		SP-SM		**Wet, dense, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.0		SP-SM		**Wet, dense, coarse to medium SAND and silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Wet, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.0					
				6.6	B101-114.5	SM		**Damp, very dense silt, fine to medium SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
115				0.1					
						SM		**Damp, very dense, silty fine SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
				1.3		SM-ML		**Dry, very dense, silty fine SAND with trace gravel, gray (50-45-5).**	
				0.4					
						SM		**Moist, very dense, silty coarse SAND with some gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
				1.3					
120									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:

Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH; DMM
Date Started: 7/9/2012
Surface Conditions: Concrete
Well Location N/S: 10.8' north of the north wall of the warehouse area
Well Location E/W: 28.5' east of the east wall of the auto shop
Reviewed by: CCC
Date Completed: 7/17/2012

BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
120				0.4	B101-120	ML		**Damp, hard, SILT with fine sand with some gravel, weakly cemented, gray, no solvent or hydrocarbon odor (50-35-15).**	
				0.4				**Sieve result 30.6/30.9/38.5.**	
				0.7		SM-GM		**Damp, very dense, silty fine to medium SAND with some gravel, gray, no solvent or hydrocarbon odor (35-50-15).**	
125			50	1.0				**No recovery.**	
130				2.5	B101-131	SM		**Wet, very dense, silty fine SAND with trace gravel, cohesive, gray, no solvent or hydrocarbon odor (40-55-5).**	
				1.3		SM-ML			
				0.4				**Wet, hard, silty fine SAND with trace gravel, slurry consistancy, gray, no solvent or hydrocarbon odor (60-35-5).**	
				0.4				**Wet, hard, silty fine to medium SAND with some gravel, cohesive material (45-40-15).**	
135									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount	

Notes/Comments:
Set conductor casing at 40 and 80 feet bgs.

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH; DMM
Date Started: 7/9/2012
Surface Conditions: Concrete
Well Location N/S: 10.8' north of the north wall of the warehouse area
Well Location E/W: 28.5' east of the east wall of the auto shop
Reviewed by: CCC
Date Completed: 7/17/2012

BORING LOG | B101 MW101

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 21 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
135									
				0.0		SM-ML		**Dry, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
				0.4		SM-ML		**Dry, hard, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (45-45-10).**	
				0.1					
				0.7	B101-140	SM-ML		**Dry, hard, SILT with fine sand and gravel, gray no solvent or hydrocarbon odor (40-45-15).**	
140									
								Boring terminated at 140 feet bgs, backfilled with bentonite grout from 140 feet to 116 feet depth. Two-inch-diameter well installed to a depth of 115 feet bgs, screened from 105 to 115 feet bgs, with silica sand from 103 to 116 feet bgs, bentonite seal from 97 to 103 feet bgs, bentonite grout from 2 to 97 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW101. **Reconnaissance groundwater samples collected from 5-foot sections of disposable pre-packed well screens set at depths of 75'-80', 95'-100', 115'-120', and 134'-139' depths.**	
145									
150									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6,4	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 115	feet bgs	Set conductor casing at 40 and 80 feet bgs.
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand		
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 014		**Monument Type:**	Flush Mount		

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/17/2012
Surface Conditions: Concrete
Well Location N/S: 13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W: 10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by: CCC
Date Completed: 7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**6 inches of concrete surfacing.**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel and brick fragments, brown, no solvent or hydrocarbon odor (25-65-10). Fill material.**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (26-65-10). Fill material.**	
						SM (FILL)		**Moist, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10). Fill material.**	
5						SM (FILL)		**Moist, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10). Fill material.**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel, asphalt and wood debris, brown, no solvent or hydrocarbon odor (20-70-10). Fill material.**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel, trace asphalt and wood debris, brown, no solvent or hydrocarbon odor (20-70-10). Fill material.**	
10				0.0		SM (FILL)		**Damp, dense, silty fine SAND with gravel, brown, no solvent or hydrocarbon odor (20-70-10). Fill material.**	
				0.0		SP-SM (FILL)		**Damp, dense, fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (15-75-10). Fill material.**	
			100						
				0.0		SM (FILL)		**Damp, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-70-5).**	
15									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 125 feet bgs
Total Well Depth: 125 feet bgs
State Well ID No.: BCK 015

Well/Auger Diameter: 1/8,6 inches
Well Screened Interval: 115 to 125 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado silica sand
Surface Seal: Concrete
Annular Seal: Grout
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/17/2012
Surface Conditions:	Concrete
Well Location N/S:	13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W:	10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				0.0		SM (FILL)		Damp, dense, silty SAND with wood debris, brown, no solvent or hydrocarbon odor (25-75-0).	
				0.0		SM (FILL)		Damp, dense, silty SAND with wood debris, brown, no solvent or hydrocarbon odor (25-75-0).	
				0.0		SM		Damp, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (20-75-5).	
20					B102-20				
				0.0		SP-SM		Damp, very dense, fine to medium SAND with silt and gravel, grayish brown, no solvent or hydrocarbon odor (15-80-5).	
				0.0					
				0.0		SP-SM		Damp, very dense, fine to medium SAND with silt and gravel, grayish brown, no solvent or hydrocarbon odor (15-80-5).	
				0.0					
25			100	0.0		SP-SM		Moist, very dense, fine to medium SAND with silt and gravel, brown, no solvent or hydrocarbon odor (15-80-5).	
				0.0		SM-ML		Wet, very dense fine sandy SILT, brown, no solvent or hydrocarbon odor (50-50-0).	
				0.0		SM-ML		Wet, very dense, fine sandy SILT, brown, no solvent or hydrocarbon odor (50-50-0).	
30					B102-30				

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand	
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout	
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/17/2012
Surface Conditions:	Concrete
Well Location N/S:	13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W:	10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				0.0		SP		**Damp, very dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (5-90-5).**	
				0.0		SP		**Damp, very dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (5-85-10).**	
				0.0		SP		**Wet, very dense, medium to fine SAND with gravel and silt, brown, no solvent or hydrocarbon odor (5-75-20).**	
35			100	0.0		SP		**Wet, very dense, medium to fine SAND with gravel and silt, brown, no solvent or hydrocarbon odor (5-75-20).**	
						SP		**Wet, very dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (10-80-10).**	
					B102-38	SM-ML		**Moist, hard, fine sandy SILT, brown, no solvent or hydrocarbon odor (50-50-0).**	
40				1.1	B102-40	SM-ML		**Damp, hard, fine sandy SILT, gray, no solvent or hydrocarbon odor (50-50-0).**	
				0.6		SM-ML		**Damp, hard, fine sandy SILT with gravel, cohesive, gray (40-50-10).**	
				34.9					
				51.0		SM		**Damp, very dense, silty fine SAND with gravel, cohesive, gray (40-50-10).**	
45									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand	
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout	
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/17/2012
Surface Conditions: Concrete
Well Location N/S: 13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W: 10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by: CCC
Date Completed: 7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45						SM-ML		Moist, hard, fine sandy SILT, gray, no solvent or hydrocarbon odor (50-50-0).	
				147.5		SP-SM		Moist, very dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).	
				202					
				39.8	B102-49	SM-ML		Damp, very dense, silty fine SAND with gravel, cohesive, gray (40-50-10).	
50				42.9		SM-ML		Moist, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-50-10).	
				14.2		SM-ML		Dry, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-45-15).	
			100						
				73.7		SM-ML		Dry, very dense, silty fine SAND, gray no solvent or hydrocarbon odor (40-45-15).	
55						SM-ML		Dry, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-50-10).	
			100			SP-SM		Damp, very dense, fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).	
						SP-SM		Damp, very dense, fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).	
60					B102-60				

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs	
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand		
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout		
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/17/2012
Surface Conditions: Concrete
Well Location N/S: 13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W: 10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by: CCC
Date Completed: 7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60				134.7		SP-SM		Damp, very dense, fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).	
				116.0		SM-ML		Damp, very dense, silty fine SAND and gravel, cohesive, gray, no solvent or hydrocarbon odor (45-50-5).	
65			100	43.0		SM-ML		Damp, very dense, silty fine SAND and gravel, cohesive, gray, no solvent or hydrocarbon odor (45-50-5).	
				54.6		SM-ML		Damp, very dense, silty fine SAND, gray no solvent or hydrocarbon odor (50-50-0).	
70					B102-70	SM-ML		Damp, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (50-50-0).	
				42.0		SM-ML		Dry, very dense, silty fine SAND and gravel, gray, no solvent or hydrocarbon odor (45-50-5).	
				24.9		SM-ML		Dry, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-45-5).	
75						SM-ML		Dry, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-45-5).	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand	
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout	
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/17/2012
Surface Conditions: Concrete
Well Location N/S: 13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W: 10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by: CCC
Date Completed: 7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75				0.0		SM-ML		**Wet, very dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (50-50-0).**	
				0.0		SM-ML		**Wet, very dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (50-50-0).**	
			100						
				1.5		SM-ML		**Wet, very dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (50-50-0).**	
80				0.4	B102-80	SM-ML		**Dry, very dense, SILT with fine sand, gray no solvent or hydrocarbon odor (50-50-0).**	
				0.4		SM-ML		**Dry, very dense, SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (50-45-5).**	
				0.6		ML		**Moist, very dense, SILT with fine sand, cohesive, gray, no solvent or hydrocarbon odor (60-35-5).**	
85			100	0.6		SM-ML		**Moist, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-45-5).**	
				0.4		SM-ML		**Moist, hard fine sandy SILT, gray, no solvent or hydrocarbon odor (60-40-0).**	
				0.6		SM-ML		**Moist, hard, fine sandy SILT, cohesive, gray, no solvent or hydrocarbon odor (60-40-0).**	
90					B102-90				

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 125 feet bgs
Total Well Depth: 125 feet bgs
State Well ID No.: BCK 015

Well/Auger Diameter: 1/8,6 inches
Well Screened Interval: 115 to 125 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado silica sand
Surface Seal: Concrete
Annular Seal: Grout
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/17/2012
Surface Conditions:	Concrete
Well Location N/S:	13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W:	10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 28 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90			25	0.2		ML		**Moist, very dense, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (55-40-5).**	
						SP-SM		**Sampler plugged with a large rock; no recovery 92.5 to 100 feet bgs.**	
95			25					**No recovery. Material returned from approximately 95 to 100 feet bgs from previously stuck/dropped sampler: wet, medium to coarse, sand with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
100				0.9	B102-100	SP-SM		**Moist, medium to coarse SAND with trace silt, gray, no solvent or hydrocarbon odor (5-95-0).**	
						SP-SM		**Wet, coarse to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
105				1.1		SP-SM		**Wet, coarse to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand	
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout	
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/17/2012
Surface Conditions:	Concrete
Well Location N/S:	13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W:	10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
105						SP-SM		**Wet, coarse to medium SAND with silt, gray, no solvent or hydrocarbon odor (15-85-0).**	
			100	0.9					
						SP-SM		**Wet, coarse to medium SAND with silt and trace gravel, gray no solvent or hydrocarbon odor (15-80-5).**	
				07					
				0.7		SP-SM		**Wet, coarse to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (15-80-5). Siltier zones present (3 inches thick or less): wet, silty coarse to medium sand with gravel, gray, no solvent or hydrocarbon odor (20-75-5).**	
110					B102-110				
						SP-SM		**Wet, dense, coarse to medium SAND with silt, gray, no solvent or hydrocarbon odor (15-80-5).**	
						SP-SM		**Wet, dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
			50						
				1.6					
				1.6		SP-SM		**Wet, dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
115				0.4		SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.4		SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
			100						
				0.2		SP-SM		**Wet, dense, medium to coarse SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-75-15).**	
				0.2		SP-SM		**Wet, dense, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-70-20).**	
120					B102-120				

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs	
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand		
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout		
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/17/2012
Surface Conditions:	Concrete
Well Location N/S:	13.5' north of northern-most northeast corner of 700 Dexter
Well Location E/W:	10.0' east of northern-most northeast corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	7/24/2012

BORING LOG | B102 MW102

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
120				0.4		SW-GW		**Wet, dense, GRAVEL with sand and silt, gray, no solvent or hydrocarbon odor (10-55-35).**	
			100						
				0.7		SM-GM		**Damp, very dense, gravelly silty SAND, gray, no solvent or hydrocarbon odor (25-30-45).**	
			100	0.4		SW-GW		**Wet, dense, gravelly SAND with silt, gray, no solvent or hydrocarbon odor.**	
				0.4		SW-GW		**Wet, dense, gravelly SAND with silt, gray, no solvent or hydrocarbon odor (10-50-40).**	
125								**Boring terminated at 125 feet bgs. Two-inch-diameter well installed to a depth of 125 feet bgs, screened from 115 to 125 feet bgs, with silica sand from 113 to 125 feet bgs, bentonite seal from 103 to 113 feet bgs, bentonite grout from 5 to 103 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW102.**	
130									
135									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	1/8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	115 to 125	feet bgs	
Sampler Type:	Core barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silica sand		
Total Boring Depth:	125	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	125	feet bgs	**Annular Seal:**	Grout		
State Well ID No.:	BCK 015		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**2 inches of concrete.**	
				0.6		SM (FILL)		**Damp, dense, silty SAND with gravel and wood debris, dark gray (30-60-10). Fill material.**	
				0.2					
			50	0.0		FILL		**Wood debris.**	
						SM (FILL)		**No recovery.**	
5				0.0				**Damp, dense, silty SAND with gravel and brick, metal, porcelain, and wood debris, dark brown to dark gray (30-60-10). Fill material.**	
						SM (FILL)			
				0.2				**Damp, dense, silty SAND with gravel and brick, metal, porcelain, and wood debris, dark brown to dark gray. No solvent or hydrocarbon odor (30-60-10). Fill material.**	
			100	0.2		SM (FILL)			
10				0.0	B103-10			**Damp, dense, silty SAND with gravel, wood and metal debris, dark brown, no solvent or hydrocarbon odor (30-60-10). Fill material.**	
						SM (FILL)			
				0.4				**Damp, dense, silty SAND with gravel and wood waste, dark brown, no solvent or hydrocarbon odor (30-60-10). Fill material.**	
				0.7		SM (FILL)			
			100	0.4					
				0.4				**Damp, dense, silty SAND with gravel and wood waste, dark brown, no solvent or hydrocarbon odor (30-60-10). Fill material.**	
15									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				1.1		SP		**Damp, dense, fine to medium SAND with trace silt, gray, no solvent or hydrocarbon odor (5-95-0).**	
				3.9					
			100						
				5.6	B103-18	SM		**Moist, dense, silty SAND with gravel, gray, moderate hydrocarbon odor (15-65-20).**	
				4.9		SM		**Wet, dense, silty SAND with gravel, gray, moderate hydrocarbon odor (15-65-20).**	
20						SM		**Moist, dense, silty SAND with gravel, gray, slight hydrocarbon odor (15-65-20).**	
				4.9					
				3.3					
			100						
				0.7		SM		**Moist, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-60-5).**	
				0.4					
25				0.0		SM		**Wet, dense, silty SAND, gray, no solvent or hydrocarbon odor (30-70-0).**	
				0.0		SM		**Wet, dense, silty SAND, gray, no solvent of hydrocarbon odor (30-70-0).**	
			100						
				0.0		SM-ML		**Wet, loose, silt with fine SAND, gray, no solvent or hydrocarbon odor (55-45-0).**	
				0.0		SM-ML		**Wet, loose, silt with fine SAND, gray, no solvent or hydrocarbon odor (55-45-0).**	
30									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				0.0	B103-30	SM		**Wet, loose, silty fine SAND with gravel and wood debris, gray, no solvent or hydrocarbon odor (25-60-15).**	
				0.0					
			100						
				0.0		SM		**Wet, loose, silty fine SAND with grave and wood debris, gray, no solvent or hydrocarbon odor (25-60-15).**	
35				0.0		SP-SM		**Wet, loose, fine to medium SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
			100						
				0.4		SP-SM		**Wet, loose, fine to medium SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
40				0.0	B103-40	SP-SM		**Moist, loose, fine to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
				6.1					
				9.2					
			100						
				5.6		SP-SM		**Moist, loose, fine to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
						SP-SM		**Moist, dense, fine to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
45				14.4					

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/25/2012
Surface Conditions: Concrete
Well Location N/S: 108.5' north of southeast corner of Seattle Light building
Well Location E/W: 6.6' east of southeast corner of Seattle Light building
Reviewed by: CCC
Date Completed: 7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45					B103-45				
				3.6		SM-ML		**Damp, very dense, fine sandy SILT with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
				4.6					
			100						
				2.1					
				0.7		SM-ML		**Damp, very dense, fine sandy SILT with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
50						SM-ML		**Damp, very dense, fine sandy SILT with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
				0.0					
				2.6					
			100						
				0.0		SM-ML		**Dry, very dense, fine sandy SILT with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
55				0.0	B103-55	SM-ML		**Dry, very dense, SILT with fine sand with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
				0.5		SM-ML		**Damp, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	
				0.2					
			100			SM-ML		**Damp, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	
				0.0					
				0.2					
60						SM-ML		**Moist, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60				0.0		GM		**Damp, very dense, silty GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
				0.0		GM		**Damp, very dense, silty GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
			100		B103-62.5				
				0.0		SM-ML		**Damp, very dense, fine sandy SILT with gravel, dark gray, no solvent or hydrocarbon odor (45-45-10).**	
				0.0		SM-ML		**Dry, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	
65				0.0		SM-ML		**Moist, very dense, fine sandy SILT with gravel, dark gray, no solvent or hydrocarbon odor (40-40-20).**	
				0.0					
			100						
				0.0					
				0.0					
				0.0		SM-ML		**Moist, very dense, fine sandy SILT to fine SAND with gravel, dark gray, no solvent or hydrocarbon odor (40-40-20).**	
70				0.0		GM		**Damp, very dense, silty GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
				0.0					
				0.0		SM-ML		**Damp, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	
				0.0		SM-ML		**Damp, very dense, silty gravely SAND, dark gray, no solvent or hydrocarbon odor (35-35-30).**	
75									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs	
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand		
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75				0.0	B103-75	GM		**Moist, very dense, silty GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
				0.0					
			100	0.0		GM		**Dry, very dense, sitly GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
				0.0					
				0.0		GM		**Moist, very dense, silty GRAVEL with fine sand, dark gray, no solvent or hydrocarbon odor (30-20-50).**	
80				0.0		SM		**Moist, very dense, silty medium to fine SAND with gravel, brown, no solvent or hydrocarbon odor (20-55-25).**	
				0.0					
			100		B103-83				
				1.0		SM		**Moist, very dense, silty medium SAND with trace gravel, brown, no solvent or hydrocarbon odor (15-80-5).**	
				0.0					
85				0.0		SP-SM		**Wet, dense, medium to coarse SAND with little silt, brown, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
			100						
				0.7		SM		**Moist, very dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (30-50-20).**	
				0.2					
90									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/25/2012
Surface Conditions:	Concrete
Well Location N/S:	108.5' north of southeast corner of Seattle Light building
Well Location E/W:	6.6' east of southeast corner of Seattle Light building
Reviewed by:	CCC
Date Completed:	7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90				0.0		SM		**Damp, very dense, silty medium SAND with trace gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
				0.0					
			100	0.0		SM		**Moist, very dense, silty, medium to fine SAND, dark gray, no solvent or hydrcarbon odor (20-80-0).**	
95				0.0	B103-95	SM		**Moist, very dense, silty medium to fine SAND, dark gray, no odor (20-80-0).**	
				0.2		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-75-15).**	
				0.0		SP-SM		**Wet, dense, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**	
				0.0		SP-SM		**Wet, dense, medium SAND with coarse to fine sand and silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.2					
100			100	0.5		SP-SM		**Wet, dense, medium SAND with fine to coarse sand with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.5					
				0.5					
				0.0		SP-SM		**Wet, dense, medium SAND with fine to coarse sand and silt and gravel, dark gray (10-80-10).**	
105									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/25/2012
Surface Conditions: Concrete
Well Location N/S: 108.5' north of southeast corner of Seattle Light building
Well Location E/W: 6.6' east of southeast corner of Seattle Light building
Reviewed by: CCC
Date Completed: 7/27/2012

BORING LOG | B103 MW103

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 19 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
105				0.0	B103-105	SP-SM		**Wet, dense, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
				0.0					
				0.0					
				0.0		SP-SM		**Wet, dense, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-75-15).**	
110			100	0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
				0.0					
				0.0					
				0.0	B103-113	SM		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (25-50-25).**	
				0.0					
115								**Boring terminated at 115 feet bgs. Two-inch-diameter well installed to a depth of 114 feet bgs, screened from 103.5 to 114 feet bgs, with sand from 101.5 to 115 feet bgs, bentonite seal from 91.5 to 101.5, bentonite grout from 5 to 91.5 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW103.**	
120									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	105 to 114	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado silicon sand	
Total Boring Depth:	115	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	115	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 016		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**9 inches of concrete surfacing.**	
								Boring cleared with vactor truck to a depth of 9 feet bgs.	
5									
10				0.0	B104-10	SM		**Damp, dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (15-65-20).**	
				0.0					
			100	0.0		SM		**Damp, dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (15-65-20).**	
				0.0					
15									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 130 feet bgs
Total Well Depth: 129 feet bgs
State Well ID No.: BCK 017

Well/Auger Diameter: 2/10,8,6 inches
Well Screened Interval: 119 to 129 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				0.0		MH		**Wet, soft, silty CLAY with sand and gravel and wood debris, consistency of wet grout, brownish gray, no solvent or hydrocarbon odor (60-20-20).**	
				0.0		MH		**Wet, soft, silty CLAY with sand and gravel and wood debris, consistency of wet grout, brownish gray, no solvent or hydrocarbon odor (60-20-20).**	
			100						
				0.0					
20				0.0	B104-20	MH		**Wet, soft, silty CLAY with sand and gravel, consistency of wet grout, gray, no solvent or hydrocarbon odor (60-20-20).**	
				0.0		MH		**Wet, soft, silty CLAY with sand and gravel, consistency of wet grout, gray, no solvent or hydrocarbon odor (60-30-10).**	
				0.0					
				0.0		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
25				0.0		SM		**Wet, loose, silty fine SAND with clay and gravel and wood debris, gray, no solvent or hydrocarbon odor (35-55-10).**	
				0.0					
			100						
				0.0		SM		**Wet, loose, silty medium SAND with gravel, brown, no solvent or hydrocarbon odor (20-60-20).**	
				0.0					
30									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 130 feet bgs
Total Well Depth: 129 feet bgs
State Well ID No.: BCK 017

Well/Auger Diameter: 2/10,8,6 inches
Well Screened Interval: 119 to 129 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				0.0	B104-30	SM		**Wet, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (20-65-15).**	
				0.5		SM		**Moist, dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (20-70-10).**	
						SM		**Moist, dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
				28.0					
35				37.5		SM		**Damp, dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
			100	3.6	B104-36				
						SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-40-20).**	
				0.0					
				0.2		SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-40-20).**	
40				0.5		SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-45-15).**	
				0.8					
			100	0.8		SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, gray, no odor (40-40-20).**	
				1.4		SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-40-20).**	
45									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45				1.1		SM-ML		**Moist, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-45-15).**	
				0.8					
				0.8		SM-ML		**Moist, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
				0.5		SM-ML		**Dry, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-40-20).**	
50				0.3	B104-50	SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).**	
				0.6		SM		**Moist to wet, dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-65-5).**	
			100	0.3					
				0.0		SM		**Damp, silty, fine SAND with gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
55				2.1		SM		**Wet, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (35-50-15).**	
				2.1					
			100						
				0.9		SM		**Wet, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
				2.7		SM-ML		**Wet, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (45-50-5).**	
60					B104-60				

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/30/2012
Surface Conditions:	Concrete
Well Location N/S:	69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W:	16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 17 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60			100	2.1		SM		**Dry, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-55-5).**	
				1.8					
				0.6					
				0.6		SM-ML		**Dry, very dense, SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-45-5).**	
65				0.6					
			100						
				0.6		SM		**Dry, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-55-5).**	
				0.9					
				1.3	B104-69				
70				0.6		SM		**Dry, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-50-10).**	
				0.0					
				0.9		SM-ML		**Dry, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-50-5).**	
				0.9					
75									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75				0.3		SM-ML		**Dry, very dense, silty SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (45-50-5).**	
			100						
				0.3					
				0.0		SM		**Damp, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
				0.0	B104-80				
80				0.0		SM		**Damp, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
						SM-ML		**Wet, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (45-50-5).**	
				0.0		SM-ML		**Wet, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (45-50-5).**	
			100						
				0.0		SM		**Damp, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
				0.3					
85				0.6		SM-ML		**Dry, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (45-50-5).**	
				0.9					
			100						
				0.9					
				0.9		SM		**Dry, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
90					B104-90				

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 130 feet bgs
Total Well Depth: 129 feet bgs
State Well ID No.: BCK 017

Well/Auger Diameter: 2/10,8,6 inches
Well Screened Interval: 119 to 129 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	7/30/2012
Surface Conditions:	Concrete
Well Location N/S:	69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W:	16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 17 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90				0.9		SM		**Damp, very dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
				1.2		SM		**Damp, very dense, silty medium to fine SAND with gravel, cohesive, dark gray (30-60-10).**	
			100	0.0		SM		**Damp, very dense, silty medium to fine SAND with trace gravel, dark gray, no solvent or hydrocarbon odor (30-65-5).**	
				0.6		SM		**Damp, very dense, silty medium to fine SAND, cohesive, dark gray (30-70-0).**	
95				0.0					
						SM		**Wet, dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-55-15).**	
				0.0		SM		**Wet, dense, silty medium to fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (25-65-10).**	
			100	0.0		SM		**Wet, dense, silty coarse to fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (30-60-10).**	
				0.0		SP-SM		**Wet, dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0	B104-100	SM		**Moist, dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (30-65-5).**	
100				0.0		SP-SM		**Wet, dense, medium to fine SAND with grravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.3					
			100			SP-SM		**Wet, dense, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.3		SP-SM		**Wet, dense, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
				0.0		SP-SM		**Wet, dense, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
105									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs	
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand		
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
105				0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**
				0.0				
				0.0				
				0.0	B104-110	SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**
110				0.3		SM		**Moist, dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (30-55-15).**
				0.0		SP-SM		**Wet, dense, coarse to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-70-20).**
				0.0		SM		**Wet, dense, silty fine SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (30-55-15).**
				0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**
				0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**
115				0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**
				0.0				
				0.0		SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**
				0.0	B104-120	SM		**Moist, dense, silty fine SAND with gravel, dark gray, no solvent or hydrocarbon odor (20-60-20).**
120								

Well Construction Detail

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 7/30/2012
Surface Conditions: Concrete
Well Location N/S: 69.7' south of most easterly NE corner of 700 Dexter
Well Location E/W: 16.7' east of the most easterly NE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 8/2/2012

BORING LOG | B104 MW104

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 17 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
120						SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-75-15).**
						SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**
125						SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**
						SP-SM		**Wet, dense, coarse to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**
						ML		**Dry, very dense, silt with fine SAND and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-25-25).**
					B104-130	ML		**Dry, very dense, silt with fine SAND and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-25-25).**
130								**Boring terminated at 130 feet bgs. Two-inch diameter well installed to a depth of 129 feet bgs, screened from 119 to 129 feet bgs, with silica sand from 117 to 130 feet bgs, bentonite seal from 107 to 117 feet bgs, bentonite grout from 5 to 107 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW104.**
135								

Well Construction Detail

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/10,8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	119 to 129	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	130	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	129	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 017		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**Concrete and brick surfacing.**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel, brown, no solvent or hydrocarbon odor (25-60-15). Fill material.**	
			80			SM (FILL)		**Damp, dense, silty fine SAND with gravel, brown, no solvent or hydrocarbon odor (25-60-15).**	
						SM (FILL)		**Damp, dense, silty fine SAND with gravel, brown, no solvent or hydrocarbon odor (25-60-15).**	
5				0.1		SM (FILL)		**Damp, dense, silty SAND with gravel, asphalt debris, black, no solvent or hydrocarbon odor (25-60-15). Fill material.**	
						SM (FILL)		**Damp, dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (25-70-5).**	
				0.0		SM (FILL)		**Damp, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (15-80-5). Fill material.**	
			100						
				0.1					
				0.0		SM (FILL)		**Damp, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (15-80-5). Fill material.**	
10					B105-10				
				0		SM (FILL)		**Damp, dense, SILT with gravel, dark brown, no solvent or hydrocarbon odor (25-60-15). Fill material.**	
								Damp, dense, silty SAND with gravel, dark brown, no solvent or hydrocarbon odor (25-60-15). Brick.	
				0.0		SM (FILL)			
			100						
				0.0		SM-SP (FILL)		**Damp, dense, medium fine SAND with silt, reddish brown, no solvent or hydrocarbon odor (10-80-10). Fill material.**	
						SM-SP (FILL)		**Damp, dense, medium fine SAND with silt and gravel, reddish brown, no solvent or hydrocarbon odor (10-80-10). Fill material.**	
15				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				0.0		SM		Damp, dense, silty SAND with gravel, trace cobbles, brown, no solvent or hydrocarbon odor (25-65-10).	
						SM		Damp, dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (25-65-10).	
			100	0.0					
				0.0		SM-SP		Damp, dense, medium fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (15-70-15).	
						SM-SP		Damp, dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (15-70-15).	
				0.0					
20				0.0	B105-20	SM		Wet, loose, silty SAND with gravel, grayish brown, no solvent or hydrocarbon odor (20-70-10).	
			100	0.0		SM		Wet, loose, silty SAND with gravel, grayish brown, no solvent or hydrocarbon odor (20-70-10).	
						SP-SM		Moist, loose, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (10-80-10).	
				0.0		SP-SM		Moist, loose, medium to fine SAND with gravel and silt, brown, no solvent or hydrocarbon odor (10-80-10).	
25				0.0					
				0.1		SM		Dry, very dense, silty fine SAND with gravel, grayish brown, cohesive, no solvent or hydrocarbon odor (25-60-15).	
			100	1.1		SM		Dry, very dense, silty fine SAND with gravel, grayish brown, cohesive, no solvent or hydrocarbon odor (25-60-15).	
				1.1		SM		Dry, very dense, silty fine SAND with gravel, grayish brown, cohesive, no solvent or hydrocarbon odor (35-45-20).	
						SM		Dry, very dense, silty fine SAND with gravel, grayish brown, cohesive, no solvent or hydrocarbon odor (35-45-20).	
30				2.7					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	8/13/12
Surface Conditions:	Concrete
Well Location N/S:	36.2' south of SE corner of 700 Dexter property
Well Location E/W:	79.3' east of SE corner of 700 Dexter property
Reviewed by:	CCC
Date Completed:	8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				0.0	B105-30	SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (25-70-5).**	
			100	0.5		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (25-70-5).**	
				0.1		SM		**Moist, very loose, silty SAND with gravel, cohesive gray, no solvent or hydrocarbon odor (30-55-15).**	
				1.2		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).**	
35				0.0		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (25-75-5).**	
			50	0.0		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
40				0.0	B105-40	SM		**Moist, very dense, silty SAND with gravel and cobbles, gray, no solvent or hydrocarbon odor (35-60-5).**	
				0.0		SM		**Moist, very dense, silty SAND with gravel and cobbles, gray, no solvent or hydrocarbon odor (35-60-5).**	
			50	2.2				**No recovery.**	
45									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 018		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45				0.0		SM-ML		**Moist, very dense, silty SAND with gravel, gray, cobbles, no solvent or hydrocarbon odor (40-40-20).**	
				0.0					
			90						
				0.0		SM		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (20-60-20).**	
						SM		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (20-60-20).**	
				0.0					
50					B105-50	SM		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-50-15).**	
				0.0					
						SM		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-50-15).**	
				0.3					
			50						
								No recovery.	
55						SM		**Damp, very dense, silty SAND with gravel, dark gray, cohesive, no solvent or hydrocarbon odor (35-45-20).**	
				0.3					
						SM		**Damp, very dense, silty SAND with gravel, dark gray, cohesive, no solvent or hydrocarbon odor (35-45-20).**	
			100	0.7					
				0.7					
						SM		**Damp, very dense, silty SAND with gravel, dark gray, cohesive, no solvent or hydrocarbon odor (35-45-20).**	
						SM		**Damp, very dense, silty SAND with gravel, dark gray, cohesive, no solvent or hydrocarbon odor (35-45-20).**	
60				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60				0.3	B105-60	SP		**Damp, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (5-90-5).**	
				0.3		SM		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (35-50-15).**	
			100	0.3		ML		**Dry, hard, SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (55-35-10).**	
				0.3					
				0.3		ML		**Dry, hard, SILT with fine sand and gravel, cohesive, very gray, no solvent or hydrocarbon odor (55-35-10).**	
65				0.0		ML		**Dry, hard, SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (50-40-10).**	
			100	0.0		ML		**Dry, hard, SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (50-40-10).**	
				0.0		ML		**Dry, hard, SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (50-40-10).**	
				0.0					
70				0.0	B105-70	GM		**Damp, very dense, silty GRAVEL with sand, cohesive, dark gray, no solvent or hydrocarbon odor (35-25-40).**	
			--	0.0		GM		**Damp, very dense, silty gravellly SAND, cohesive, dark gray, no solvent or hydrocarbon odor (35-25-40).**	
				0.0		GM		**Damp, very dense, silty gravellly SAND, cohesive, dark gray, no solvent or hydrocarbon odor (35-25-40).**	
75				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75				0.3		SM		**Moist, very dense, silty SAND with gravel, cohesive, grayish brown, no solvent or hydrocarbon odor (35-50-15).**	
						SM		**Moist, very dense, silty SAND with gravel, cohesive, grayish brown, no solvent or hydrocarbon odor (35-50-15).**	
			100	0.3				**Moist, very dense, silty SAND with gravel, cohesive, grayish brown, no solvent or hydrocarbon odor (35-50-15).**	
				0.3		SM		**Moist, very dense, silty SAND with gravel, cohesive, grayish brown, no solvent or hydrocarbon odor (35-50-15).**	
				0.3	B105-80				
80								**Bentonite plug.**	
			50			SM		**Damp, very dense, silty SAND with gravel, cohesive, dark gray, no solvent or hydrocarbon odor (35-50-15).**	
				0.1					
				0.1					
85						GM		**Wet, very dense, gravelly, silty SAND, gray, no solvent or hydrocarbon odor (35-30-40).**	
				0.0					
			100	0.0		GM			
				0.0					
						SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (35-45-20).**	
90				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	8/13/12
Surface Conditions:	Concrete
Well Location N/S:	36.2' south of SE corner of 700 Dexter property
Well Location E/W:	79.3' east of SE corner of 700 Dexter property
Reviewed by:	CCC
Date Completed:	8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90				0.0	B105-90	GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-30-40).**	
			100	0.0		GM		**Wet, very dark, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-30-40).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (35-50-15).**	
				0.0		SM		**Moist, very dense, silty medium to fine SAND and gravel, dark gray, no solvent or hydrocarbon odor (20-75-5).**	
95				0.0		SP-SM		**Wet, loose, medium to fine SAND with silt and gravel, dark brown, no solvent or hydrocarbon odor (10-85-5).**	
			100	0.0					
				0.0					
				0.0					
100				0.0	B105-100	SP-SM		**Wet, loose, medium to fine SAND with silt, brown, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
			100	0.0		SP-SM		**Wet, loose, fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
				0.0					
105				0.0					

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 018		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
105				105.5		SP-SM		**Wet, loose, fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
			100	0.0		SP-SM		**Wet, loose, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
				0.0		SP-SM		**Wet, loose, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
110					B105-110	SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-60-30).**	
			100			SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-60-30).**	
						SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-60-30).**	
115						SP-SM		**Wet, loose, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
			--						
120									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
120				0.0	B105-120	SP-SM		**Wet, loose, coarse to medium SAND with gravel, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
			100	0.0		SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-65-25).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (20-55-25).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (20-55-25).**	
125						SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**	
			--			SP-SM		**Wet, very dense, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-60-30).**	
						SP-SM		**Wet, loose, medium to coarse SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
						SP-SM		**Wet, loose, medium to coarse SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
130					B105-130	SP-SM		**We, loose, medium to coarse SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
				0.0					
				0.0		SP-SM		**Wet, loose, medium to coarse SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
			100						
				0.0		SP-SM		**Wet, loose, medium to coarse SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-70-20).**	
135									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 018

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/13/12
Surface Conditions: Concrete
Well Location N/S: 36.2' south of SE corner of 700 Dexter property
Well Location E/W: 79.3' east of SE corner of 700 Dexter property
Reviewed by: CCC
Date Completed: 8/13/12

BORING LOG | B105 MW105

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 21 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
135				0.0		SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, gray no solvent or hydrocarbon odor (10-70-20).**	
			100	0.0		SP-SM		**Wet, loose, coarse to medium SAND with gravel and silt, gray, no solvent or hydrocarbon odor (10-70-20).**	
					B105-138	ML		**Dry, hard, SILT with fine sand and gravel, brown, no solvent or hydrocarbon odor (70-20-5).**	
				0.0					
						ML		**Dry, hard, SILT with fine sand, brown, no solvent or hydrocarbon odor (70-30-0).**	
				0.0					
140								**Boring terminated at 140 feet bgs, backfilled with bentonite grout from 2 feet to 128 feet depth. Two-inch-diameter well installed to a depth of 140 feet bgs, screened from 130 to 140 feet bgs, with silica sand from 128 to 140 feet bgs, bentonite seal from 118 to 128 feet bgs, bentonite grout from 2 to 118 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW105**	
145									
150									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches	**Notes/Comments:**
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs	
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand		
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout		
State Well ID No.:	BCK 018		**Monument Type:**	Flush Mount		

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	8/14/12
Surface Conditions:	Concrete
Well Location N/S:	84.7' south of SE corner of 700 Dexter
Well Location E/W:	112' west of SE corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Asphalt		**4"-thick asphalt surfacing. Boring hand-cleared to 5 feet bgs.**	
5				0.1		SM		**Dry, dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
				0.5		SM		**Dry, dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
			100	0.5		SM		**Dry, dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
				1.3		SM		**Dry, dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
10				0.1	B106-10	SM		**Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
				0.1		SM		**Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
			100	0.1		SM		**Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	
				0.1					
15				0.0		SM		**Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-60-20).**	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 019		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				0.0		SM		Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
				0.0		SM		Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
			100	0.0		SM		Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
				0.0		SM		Dry, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
20				0.0	B106-20	SM		Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
			100	0.0		SM		Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).	
				0.0		SM		Dry, very dense, silty SAND with gravel, dark brown, no solvent or hydrocarbon odor (25-65-10).	
				0.0		SM		Dry, very dense, silty SAND with gravel, dark brown, no solvent or hydrocarbon odor (25-65-10).	
25				0.0		SM		Dry, very dense, silty SAND with gravel, cohesive gray, no solvent or hydrocarbon odor (35-55-10).	
			100	0.0		SM		Dry, very dense, silty SAND with gravel, cohesive gray, no solvent or hydrocarbon odor (35-55-10).	
				0.0		SM		Dry, very dense, silty SAND with gravel, cohesive gray, no solvent or hydrocarbon odor (35-55-10).	
30				0.0		SM		Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).	

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 019

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30				0.0	B106-30	SP-SM		Moist, dense, fine to medium SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-80-10).	
				0.0		SP-SM		Moist, dense, fine to medium SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-80-10).	
			100	0.0		SP-SM		Moist, dense, fine to medium SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-80-10).	
				0.0		SP-SM		Moist, dense, fine to medium SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-80-10).	
35				10.4		SP-SM		Wet, dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	
			--	4.9		SP-SM		Wet, dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	
				1.3		SP-SM		Wet, dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	
				0.5		SP-SM		Wet, dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	
40				0.5	B106-40	SP-SM			
				0.5		SM-ML		Dry, hard, fine sandy SILT with gravel, gray cohesive, no solvent or hydrocarbon odor (50-35-15).	
			--	0.5		SP-SM		Damp, dense, fine to medium SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	
				0.5					
45				0.5		SP-SM		Damp, dense, fine to medium SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10).	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 019		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter Property
Project Number:	0797-001
Logged by:	RAH
Date Started:	8/14/12
Surface Conditions:	Concrete
Well Location N/S:	84.7' south of SE corner of 700 Dexter
Well Location E/W:	112' west of SE corner of 700 Dexter
Reviewed by:	CCC
Date Completed:	08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45				0.5		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
			100	0.5		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
				1.3		SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
				0.1		SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
50				0.5	B106-50	SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
				0.1		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
			100	0.0		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-45-20).**	
55				0.0		SM		**Damp, very dense, silty SAND with gravel and cobbles, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
				0.0		SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
			100	0.1		SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
				0.1		SM		**Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
60									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 019		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60				0.0	B106-60	SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon (35-55-10).**	
						SM		**Moist, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
			100	0.0					
				0.0		SM		**Dry, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrcarbon odor (35-55-10).**	
				0.0		SM		**Dry, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-55-10).**	
65				0.0		SM		**Dry, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).**	
				0.0		SM		**Dry, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).**	
				0.0		SM		**Dry, very dense, silty SAND with gravel, dark gray cohesive, no solvent or hydrocarbon odor (35-50-15).**	
			100	0.0					
				0.0		SM		**Dry, very dense, silty SAND with gravel, dark gray cohesive, no solvent or hydrocarbon odor (35-50-15).**	
70				0.0	B106-70	SM		**Damp, very dense, silty SAND with gravel, dark gray cohesive, no solvent or hydrocarbon odor (35-55-10).**	
				0.0		SM		**Damp, very dense, silty SAND with gravel, dark gray cohesive, no solvent or hydrocarbon odor (35-55-10).**	
				0.0					
			100	0.0		ML		**Damp, hard, fine sandy SILT, weak lamination, cohesive gray, no solvent or hydrocarbon odor odor (60-40-0).**	
				0.0		ML		**Dry, hard, fine sandy SILT, weak lamination, cohesive gray, no solvent or hydrocarbon odor (60-40-0).**	
75									

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 019

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75				0.0		SM		Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).	
						SM		Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).	
				0.0					
			100						
				0.0		SM		Dry, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).	
						SM		Damp, very dense, silty SAND with gravel, cohesive dark gray, no solvent or hydrocarbon odor (35-50-15).	
				0.0					
80					B106-80	SM-GM		Damp, very dense, gravelly silty SAND, dark gray, no solvent or hydrocarbon odor (30-30-40).	
				0.0					
						SM-GM		Damp, very dense, gravelly silty SAND, dark gray, no solvent or hydrocarbon odor (30-30-40).	
				0.0					
						SM-ML			
			100						
				0.0				Damp, very dense, silty SAND, dark gray, no solvent or hydrocarbon odor (35-40-25).	
						SM-ML		Damp, very dense, silty SAND, dark gray, no solvent or hydrocarbon odor (35-40-25).	
				0.3					
85						SM		Moist, very dense, silty SAND, dark gray cohesive, no solvent or hydrocarbon odor (30-70-0).	
				0.0					
						SM		Moist, very dense, silty SAND, dark gray cohesive, no solvent or hydrocarbon odor (30-70-0).	
				0.0		SP-SM		Moist, very dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (15-75-10).	
			100						
				0.0		SP-SM			
						SP-SM		Moist, very dense, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (15-75-10).	
90				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 019

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
90				0.0	B106-90	SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
						SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
				0.0		SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
			100	0.0		SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
95						SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
						SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
			100			SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0					
				0.0		SP-SM		**Wet, dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
100					B106-100	SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, dark brown, no solvent or hydrocarbon odor (10-85-5).**	
				0.0					
				0.0		SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, dark brown, no solvent or hydrocarbon odor (10-85-5).**	
			100	0.0		SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, dark brown, no solvent or hydrocarbon odor (10-85-5).**	
				0.0		SP-SM		**Wet, dense, medium to fine SAND with silt and gravel, dark brown, no solvent or hydrocarbon odor (10-85-5).**	
105				0.0					

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 019

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
105				0.0		SP-SM		**Moist, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
			100	0.0		SP-SM		**Moist, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
				0.0		SP-SM		**Moist, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Moist, dense, coarse to medium SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-90-0).**	
110				0.0	B106-110	SP-SM		**Wet, dense, coarse to medum SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Wet, dense, coarse to medum SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Wet, dense, medum to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
			100	0.0		SP-SM		**Wet, dense, medum to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
115				0.0		SP-SM		**Wet, dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Wet, dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
				0.0		SP-SM		**Wet, dense, fine to medium SAND with silt and trace gravel, dark gray, no solvent or hydrocarbon odor (10-87-03).**	
120				0.0		SP-SM		**Wet, dense, fine to medium SAND with silt and trace gravel, dark gray, no solvent or hydrocarbon odor (10-87-03).**	

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 019		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
120				0.0	B106-120	SP-SM		Wet. dense, medium SAND gravel with silt, dark gray, no solvent or hydrocarbon odor (10-70-10).	
				0.0		SP-SM		Wet, dense, coarse, medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-50-10).	
			100						
				0.0		SP-SM		Wet, dense, medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).	
				0.0		SP-SM		Wet, dense, medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0)	
125				0.0		SP-SM		Wet, dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).	
				0.0		SP-SM		Wet, dense, fine to medium SAND with silt , dark gray, no solvent or hydrocarbon odor (10-90-0).	
			100						
				0.0		SP		Wet, dense, gravelly, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (5-60-35).	
				0.0		SP		Wet, dense, gravelly, coarse to medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (5-60-35).	
130				0.0	B106-130	GM		Wet, dense, silty sandy GRAVEL, dark gray, no solvent or hydrocarbon odor (25-25-50).	
				0.0		GM		Wet, dense, silty sandy GRAVEL, dark gray, no solvent or hydrocarbon odor (25-25-50).	
				0.0		GM		Wet, dense, silty sandy GRAVEL, dark gray, no solvent or hydrocarbon odor (25-25-50).	
				0.0					
135				0.0		GM		Wet, dense, silty sandy GRAVEL, dark gray, no solvent or hydrocarbon odor (25-25-50).	

Drilling Co./Driller: Major Drilling/Dan
Drilling Equipment: LAR Sonic
Sampler Type: Core Barrel
Hammer Type/Weight: -- lbs
Total Boring Depth: 140 feet bgs
Total Well Depth: 140 feet bgs
State Well ID No.: BCK 019

Well/Auger Diameter: 2/8,6 inches
Well Screened Interval: 130 to 140 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: Colorado Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite grout
Monument Type: Flush Mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter Property
Project Number: 0797-001
Logged by: RAH
Date Started: 8/14/12
Surface Conditions: Concrete
Well Location N/S: 84.7' south of SE corner of 700 Dexter
Well Location E/W: 112' west of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 08/16/12

BORING LOG | B106 MW106

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
135			--		B106-140	SP-SM		**Wet, dense, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
						SP-SM		**Wet, dense, medium to fine SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
						SP-SM		**Wet, dense, medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
140						SP-SM		**Wet. dense, medium SAND with gravel and silt, dark gray, no solvent or hydrocarbon odor (10-80-10).**	
								Boring terminated at 140 feet bgs, backfilled with bentonite grout from 2 feet to 118 feet depth. Two-inch diameter well installed to a depth of 140 feet bgs, screened from 130 to 140 feet bgs, with silica sand from 128 to 140 feet bgs, bentonite seal from 118 to 128 feet bgs, bentonite grout from 2 to 118 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW106	
145									
150									

Drilling Co./Driller:	Major Drilling/Dan		**Well/Auger Diameter:**	2/8,6	inches
Drilling Equipment:	LAR Sonic		**Well Screened Interval:**	130 to 140	feet bgs
Sampler Type:	Core Barrel		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	Colorado Silica Sand	
Total Boring Depth:	140	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	140	feet bgs	**Annular Seal:**	Bentonite grout	
State Well ID No.:	BCK 019		**Monument Type:**	Flush Mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/03/12
Surface Conditions: Concrete
Well Location N/S: 89' N of SE corner of 700 Dexter
Well Location E/W: 7.5' E of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 12/03/12

BORING LOG | B107 MW107

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17.35 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**4" Concrete surfacing.**	
5		2 1 1	20	1.5	B107-05	**SP-SM (FILL)**		**Damp, very loose, medium to fine SAND with gravel and fill debris, brown, no solvent or hydrocarbon odor (10-80-10) (FILL).**	
10		35 8 7	100	0.0		**MH**		**Damp, stiff, SILT with fine sand and gravel, light brown, no solvent or hydrocarbon odor (60-30-10).**	
15									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS 773

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35-45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Concrete
Annular Seal: Bentonite chips
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/03/12
Surface Conditions: Concrete
Well Location N/S: 89' N of SE corner of 700 Dexter
Well Location E/W: 7.5' E of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 12/03/12

BORING LOG | B107 MW107

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17.35 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		7 7 7	100	1.5	B107-15	MH		**Moist, stiff, SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (60-30-10).**	
						SM-MH		**Damp, medium dense, silty SAND with gravel, wood waste, and rootlets, slightly plastic, shoreline sediments, dark brown, no solvent or hydrocarbon odor (45-45-10).**	
20		10 10 15	100	2.0		SM		**Damp, medium dense, silty fine to medium SAND, gray, no solvent or hydrocarbon odor (35-65-0).**	
25		7 8 9	100	3.6	B107-25	SP-SM		**Wet, medium dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (15-75-10).**	
30									

						Notes/Comments:
Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches	
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs	
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite chips		
State Well ID No.:	BHS 773		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/03/12
Surface Conditions: Concrete
Well Location N/S: 89' N of SE corner of 700 Dexter
Well Location E/W: 7.5' E of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 12/03/12

BORING LOG | B107 MW107

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17.35 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		20 22 25	90	22.0		SM		**Wet, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).**	
35		50/6"	33	82.1	B107-35	SM		**Wet, very dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10).**	
40		50/6"	33	20.2		SM		**Wet, very dense, silty medium to fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (25-65-10).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS 773

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35-45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Concrete
Annular Seal: Bentonite chips
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/03/12
Surface Conditions: Concrete
Well Location N/S: 89' N of SE corner of 700 Dexter
Well Location E/W: 7.5' E of SE corner of 700 Dexter
Reviewed by: CCC
Date Completed: 12/03/12

BORING LOG | B107 MW107

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17.35 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45	X	50/6"	33	2.5	B107-45	SM		**Damp, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (30-65-5).**	
								Boring terminated at 45.5 feet bgs. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 40 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW107.	
50									
55									
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite chips	
State Well ID No.:	BHS 773		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/14/12
Surface Conditions:	concrete
Well Location N/S:	10.8' S of NW corner Seattle Ducati building
Well Location E/W:	14' W of NW corner of Seattle Ducati building
Reviewed by:	CCC
Date Completed:	12/14/12

BORING LOG | B108 MW108

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" Concrete surfacing.**	
								Cleared borehole with a vactor truck to a depth of 9 feet below ground surface.	
5									
10		5 6 8	50	3.4		**SM (FILL)**		**Damp, medium dense, silty SAND with Fill debris, black, no solvent or hydrocarbon odor. (FILL).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40-50	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	50.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	50	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS765		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/14/12
Surface Conditions: concrete
Well Location N/S: 10.8' S of NW corner Seattle Ducati building
Well Location E/W: 14' W of NW corner of Seattle Ducati building
Reviewed by: CCC
Date Completed: 12/14/12

BORING LOG | B108 MW108

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		3 3 5	60	2.1	B108-15	SM		**Wet, loose, silty SAND with gravel and wood waste, dark gray, no solvent or hydrocarbon odor (35-55-10) (FILL).**	
20		4 6 5	80	0.3		SM		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
25		7 7 9	80	0.3	B108-25	SM-ML		**Moist, medium dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40-50	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	50.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	50	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS765		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/14/12
Surface Conditions: concrete
Well Location N/S: 10.8' S of NW corner Seattle Ducati building
Well Location E/W: 14' W of NW corner of Seattle Ducati building
Reviewed by: CCC
Date Completed: 12/14/12

BORING LOG | B108 MW108

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
30		12 14 17	100	0.0		SM		**Wet, dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-60-0). Lacostrene sediments.**
		17 20 23	100	0.3		SM		**Wet, dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (40-60-0). Lacostrine sediments.**
35		50/6"	100	0.0	B108-35	MH		**Wet, very dense, SILT with fine sand, plastic, gray, no solvent or hydrocarbon odor (80-20-0).**
		20 50/6"	90	0.0		SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**
40		16 50/6"	50	0.9		SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**
		50/6"	40	0.3		SM		**Wet, very dense, silty SAND, brown, no solvent or hydrocarbon odor (40-60-0).**
45								

Well Construction Detail

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40-50	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	50.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	50	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS765		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/14/12
Surface Conditions: concrete
Well Location N/S: 10.8' S of NW corner Seattle Ducati building
Well Location E/W: 14' W of NW corner of Seattle Ducati building
Reviewed by: CCC
Date Completed: 12/14/12

BORING LOG | B108 MW108

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6"	50	0.0	B108-45	SM		**Wet, very dense, silty SAND, brown, no solvent or hydrocarbon odor (40-60-0).**	
		50/6"	50	0.0		SM		**Wet, very dense, silty SAND, brown, no solvent or hydrocarbon odor (40-60-0).**	
50		50/6"	50	0.0	B108-50	SM		**Damp, very dense, silty SAND, cohesive, brown, no solvent or hydrocarbon odor (40-60-0).**	
								Boring terminated at 50.5 feet bgs. Two-inch-diameter well installed to a depth of 50 feet bgs, screened from 40 to 50 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW108.	
55									
60									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA LAR
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 50.5 feet bgs
Total Well Depth: 50 feet bgs
State Well ID No.: BHS765

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 40-50 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 138.5' N of SE corner of Seattle City Light Building
Well Location E/W: 7.0' E of SE corner of Seattle City Light Building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B109 MW109

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" concrete surfacing.**	
5		2 2 3	100	0.0	B109-05	**SM (FILL)**		**Moist, loose, silty SAND with gravel, fill material, gray, no solvent or hydrocarbon odor (30-60-10) (FILL).**	
10		1 1 1	100	0.0		**SM (FILL)**		**Moist, very loose, silty SAND with gravel, gray to black, slight hydrocarbon odor (30-60-10) (FILL).**	
15									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS 771

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 138.5' N of SE corner of Seattle City Light Building
Well Location E/W: 7.0' E of SE corner of Seattle City Light Building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B109 MW109

Site Address: 700 Dexter Avenue, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		2 3 3	100	6.9	B109-15	SM		**Moist, loose, silty medium to fine SAND with gravel, gray, moderate hydrocarbon odor (20-75-5).**	
20		3 2 3	100	0.5		SM		**Wet, loose, silty SAND with gravel, gray, sheen on sample, no solvent or hydrocarbon odor (30-55-15).**	
25		3 3 5	100	0.0	B109-25	SM		**Wet, loose, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35 to 45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS 771		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 138.5' N of SE corner of Seattle City Light Building
Well Location E/W: 7.0' E of SE corner of Seattle City Light Building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B109 MW109

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		4 5 5	100	0.0		MH		**Damp, loose, organic sandy SILT with plant material, dark brown, no solvent or hydrocarbon odor (60-40-0).**	
		20 50/6"	100	0.5		SM		**Damp, very dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
35		7 9 20	100	0.0	B109-35	SP-SM		**Wet, medium dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
		15 50/6"	60	0.0		SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
40		50/6"	30	0.0		SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
		14 50/6"	60	30.8		SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS 771

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 138.5' N of SE corner of Seattle City Light Building
Well Location E/W: 7.0' E of SE corner of Seattle City Light Building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B109 MW109

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45	X	50/6"	30	34.3	B109-45	SP-SM		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
								Boring terminated at 45.5 feet bgs. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW109.	
50									
55									
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35 to 45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS 771		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 10.9' N of SE corner of Seattle City Light building
Well Location E/W: 7.6' E of SE corner of Seattle City Light building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B110 MW110

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 20.24 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**5" Concrete surfacing.**	
5		2 2 2	80	1.6	B110-05	**SM (FILL)**		**Damp, very loose, silty SAND with trace gravel, brown, no solvent or hydrocarbon odor (25-70-5) (FILL).**	
10		3 3 3	90	0.5		**SM (FILL)**		**Damp, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (25-65-10) (FILL).**	
15									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS772

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 10.9' N of SE corner of Seattle City Light building
Well Location E/W: 7.6' E of SE corner of Seattle City Light building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B110 MW110

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 20.24 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		5 5 5	100	0.0	B110-15	SM (FILL)		**Damp, loose, silty SAND with trace gravel, brown, no solvent or hydrocarbon odor (25-70-5) (FILL).**	
20		9 10 11	90	3.3		SM (FILL)		**Damp, medium dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10) (FILL).**	
25		7 9 10	100	1.1	B110-25	SM-ML		**Wet, very stiff, fine sandy SILT with gravel, wood waste, and plant material, no solvent or hydrocarbon odor (45-40-15) (FILL).**	
30									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS772

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 10.9' N of SE corner of Seattle City Light building
Well Location E/W: 7.6' E of SE corner of Seattle City Light building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B110 MW110

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 20.24 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		8 12 15	100	0.5		SP-SM		**Wet, medium dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
		12 15 15	100	1.1		SP-SM SM		**Wet, medium dense, medium to fine SAND with silt, brown, no solvent or hydrocarbon odor (10-90-0).** **Wet, medium dense, silty medium to fine SAND, brown, no solvent or hydrocarbon odor (25-75-0).**	
35		50/6"	30	9.9	B110-35	SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (35-55-10).**	
		50/6"	30	0.5		SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (35-55-10).**	
40		50/6"	30	1.1		ML		**Damp, hard, silt with fine SAND and trace gravel, cohesive, gray, no solvent or hydrocarbon odor (60-35-5).**	
		50/6"	30	1.1		SM-ML		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (45-45-10).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS772

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/04/12
Surface Conditions: Concrete
Well Location N/S: 10.9' N of SE corner of Seattle City Light building
Well Location E/W: 7.6' E of SE corner of Seattle City Light building
Reviewed by: CCC
Date Completed: 12/04/12

BORING LOG | B110 MW110

Site Address: 700 Dexter Avenue
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 20.24 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6"	30	1.1	B110-45	SM		**Damp, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (35-55-10).**	
								Boring terminated at 45.5 feet bgs. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW110.	
50									
55									
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35 to 45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS772		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/05/12
Surface Conditions: Conrete
Well Location N/S: 92.5' N of SE corner of SCL building
Well Location E/W: 7.5' E of SE corner of SCL building
Reviewed by: CCC
Date Completed: 12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete surfacing.**	
5		1 2 3	90	0.8		SM (FILL)		**Moist, loose, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-60-15) (FILL).**	
10		1 1 1	80	0.2	B111-10	SM (FILL)		**Damp, very loose, silty medium to fine SAND with gravel, wood waste, dark brown, no solvent or hydrocarbon odor (25-60-15) (FILL).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25/10.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	70 to 80	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	#2/12 silica sand	
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite chips	
State Well ID No.:	BHS770		**Monument Type:**	Flush mount	

Notes/Comments:
Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/05/12
Surface Conditions: Conrete
Well Location N/S: 92.5' N of SE corner of SCL building
Well Location E/W: 7.5' E of SE corner of SCL building
Reviewed by: CCC
Date Completed: 12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		3 3 4	100	1.8		SM		**Damp, loose, silty fine to medium SAND, gray, slight hydrocarbon odor (40-60-0).**	
20		4 4 4	100	1.3	B111-20	SM-ML		**Wet, medium stiff, fine sandy SILT, slightly plastic, gray, no solvent or hydrocarbon odor (55-45-0).**	
25		4 6 7	100	0.8		SM		**Wet, medium dense, silty medium to fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25/10.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	70 to 80	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	#2/12 silica sand	
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite chips	
State Well ID No.:	BHS770		**Monument Type:**	Flush mount	

Notes/Comments:
Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/05/12
Surface Conditions: Conrete
Well Location N/S: 92.5' N of SE corner of SCL building
Well Location E/W: 7.5' E of SE corner of SCL building
Reviewed by: CCC
Date Completed: 12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		7 10 11	10		B111-30	SP-SM		**Wet, medium dense, fine to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (15-80-5).**	
		11 12 13	60	0.2		SP-SM		**Wet, medium dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (15-85-0).**	
35		6 7 7	80	1.8		SP-SM		**Wet, medium dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon door (10-90-0).**	
		17 50/6"	80	17.0	B111-38	SP-SM		**Wet, very dense, fine to coarse SAND with silt and trace gravel, dark gray, no solvent or hydrocarbon odor (10-85-5).**	
40		50/6"	100	3.5		SP-SM		**Wet, very dense, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0). Heaving sands.**	
		12 14 16		57.8		SP-SM SM		**Wet, medium dense, fine to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).** **Damp, medium dense, silty SAND with trace gravel, gray, no solvent or hydrocarbon odor (25-70-5).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 300 lbs
Total Boring Depth: 80.5 feet bgs
Total Well Depth: 80 feet bgs
State Well ID No.: BHS770

Well/Auger Diameter: 2/8.25/10.25 inches
Well Screened Interval: 70 to 80 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite chips
Monument Type: Flush mount

Notes/Comments:
Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/05/12
Surface Conditions: Conrete
Well Location N/S: 92.5' N of SE corner of SCL building
Well Location E/W: 7.5' E of SE corner of SCL building
Reviewed by: CCC
Date Completed: 12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		20 50/6"	60	32.8		SP-SM		**Wet, very dense, fine to medium SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
		25 50/6"	60	36.0		SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-50-10).**	
50		50/6"	30	8.9	B111-50	ML		**Damp, hard, SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-35-15).**	
55		50/6"	30	8.4		ML		**Damp, hard, SILT with sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-35-15).**	
60									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 300 lbs
Total Boring Depth: 80.5 feet bgs
Total Well Depth: 80 feet bgs
State Well ID No.: BHS770

Well/Auger Diameter: 2/8.25/10.25 inches
Well Screened Interval: 70 to 80 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite chips
Monument Type: Flush mount

Notes/Comments:
Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/05/12
Surface Conditions:	Conrete
Well Location N/S:	92.5' N of SE corner of SCL building
Well Location E/W:	7.5' E of SE corner of SCL building
Reviewed by:	CCC
Date Completed:	12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/6"	30	0.8	B111-60	GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (25-25-50).**	
65		50/6"	30	0.2		GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-25-45).**	
70		50/6"	30	2.9	B111-70	GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-20-50).**	
		50/6"	30	0.2		GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-20-50).**	
75									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25/10.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	70 to 80	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	#2/12 silica sand	
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite chips	
State Well ID No.:	BHS770		**Monument Type:**	Flush mount	

Notes/Comments:

Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/05/12
Surface Conditions: Conrete
Well Location N/S: 92.5' N of SE corner of SCL building
Well Location E/W: 7.5' E of SE corner of SCL building
Reviewed by: CCC
Date Completed: 12/05/12

BORING LOG | B111 MW111

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75		50/5"	100	1.9		GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-20-50).**	
		50/6"	100	0.4		GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-20-50).**	
80		50/6"	30	3.5	B111-80	GM		**Wet, very dense, silty sandy GRAVEL, gray, no solvent or hydrocarbon odor (30-20-50).**	
								Boring terminated at 80.5 feet bgs. Two-inch-diameter well installed to a depth of 80 feet bgs, screened from 70 to 80 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW111.	
85									
90									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Split-spoon
Hammer Type/Weight: 300 lbs
Total Boring Depth: 80.5 feet bgs
Total Well Depth: 80 feet bgs
State Well ID No.: BHS770

Well/Auger Diameter: 2/8.25/10.25 inches
Well Screened Interval: 70 to 80 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: #2/12 silica sand
Surface Seal: Concrete
Annular Seal: Bentonite chips
Monument Type: Flush mount

Notes/Comments:
Conductor casing set at 50 feet bgs.

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/11/12
Surface Conditions:	Asphalt/Concrete
Well Location N/S:	105.5' N of SE corner of building
Well Location E/W:	15' E of SE corner of building
Reviewed by:	CCC
Date Completed:	12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt/concrete at the surface.**	
								Borehole cleared to a depth of 9 feet bgs with a vactor truck.	
5									
10		0 1 1	100	1.4	B112-10	**SM-ML (FILL)**		**Damp, soft, fine sandy SILT with gravel and rootlets, brown, no solvent or hydrocarbon odor (40-40-20) (FILL).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	75 to 85	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	85.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	85	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS767		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/11/12
Surface Conditions: Asphalt/Concrete
Well Location N/S: 105.5' N of SE corner of building
Well Location E/W: 15' E of SE corner of building
Reviewed by: CCC
Date Completed: 12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		30 50/5"	100	1.7		SM		**Damp, very dense, silty SAND with gravel, reddish brown, no solvent or hydrocarbon odor (25-55-20).**	
20		50/6"	20	4.6	B112-20	SM		**Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).**	
25		50/6"	100	2.8		SP-SM		**Wet, very dense, medium to fine SAND with silt, reddish brown, no solvent or hydrocarbon odor (15-85-0).**	
30									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 85.5 feet bgs
Total Well Depth: 85 feet bgs
State Well ID No.: BHS767

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 75 to 85 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/11/12
Surface Conditions: Asphalt/Concrete
Well Location N/S: 105.5' N of SE corner of building
Well Location E/W: 15' E of SE corner of building
Reviewed by: CCC
Date Completed: 12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6"	60	3.4	B112-30	SM		**Dry, very dense, silty fine SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (30-55-15).**	
35		50/6"	30	1.7		SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
40		50/6"	100	0.0	B112-40	SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-55-15).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 85.5 feet bgs
Total Well Depth: 85 feet bgs
State Well ID No.: BHS767

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 75 to 85 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/11/12
Surface Conditions: Asphalt/Concrete
Well Location N/S: 105.5' N of SE corner of building
Well Location E/W: 15' E of SE corner of building
Reviewed by: CCC
Date Completed: 12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6"	30	0.8		SM		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (30-50-20).**	
50		50/5"	50	2.3	B112-50	SM-ML		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-40-20).**	
		50/5"	50	2.3		SM-ML		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-45-15).**	
55		50/6"	50	2.8		SP-SM SM		**Moist, very dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).** **Moist, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
		50/3"	30	2.3		SM-ML		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (40-45-5).**	
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	75 to 85	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	85.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	85	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS767		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/11/12
Surface Conditions:	Asphalt/Concrete
Well Location N/S:	105.5' N of SE corner of building
Well Location E/W:	15' E of SE corner of building
Reviewed by:	CCC
Date Completed:	12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/6"	50	1.7	B112-60	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
65		50/6"	50	1.7		SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
70		50/6"	50	1.7	B112-70	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
75									

Drilling Co./Driller:	Cascade/Curtis		
Drilling Equipment:	HSA		
Sampler Type:	Dames and Moore		
Hammer Type/Weight:	300	lbs	
Total Boring Depth:	85.5	feet bgs	
Total Well Depth:	85	feet bgs	
State Well ID No.:	BHS767		

Well/Auger Diameter:	2/8.25	inches
Well Screened Interval:	75 to 85	feet bgs
Screen Slot Size:	0.010	inches
Filter Pack Used:	2/12 Silica Sand	
Surface Seal:	Concrete	
Annular Seal:	Bentonite	
Monument Type:	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/11/12
Surface Conditions: Asphalt/Concrete
Well Location N/S: 105.5' N of SE corner of building
Well Location E/W: 15' E of SE corner of building
Reviewed by: CCC
Date Completed: 12/11/12

BORING LOG | B112 MW112

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75		50/8"	50	0.5	B112-75	SM-ML		**Wet, very dense, silty SAND with trace gravel, gray, no solvent or hydrocarbon odor (45-50-5).**	
						SP-SM		**Wet, very dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
80		50/4"	30	0.5	B112-80	SM-ML		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
85		50/6"	30	0.0	B112-85	SM-ML		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
								Boring terminated at 85.5 feet bgs. Two-inch-diameter well installed to a depth of 85 feet bgs, screened from 75 to 85 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW112.	
90									

						Notes/Comments:
Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches	
Drilling Equipment:	HSA		**Well Screened Interval:**	75 to 85	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	85.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	85	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS767		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/17/12
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	CCC
Date Completed:	12/17/12

BORING LOG | B113 MW113

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 1.5 feet thick at surface.**	
								Cleared borehole with a vactor truck to a depth of 9 feet below ground surface.	
5									
10		12 12 12	100	44.8	B113-10	**SM**		**Dry, medium dense, silty medium to fine SAND with gravel, light brown, no solvent or hydrocarbon odor (15-70-15).**	
15									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	70-80	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	80	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS764		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/17/12
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: CCC
Date Completed: 12/17/12

BORING LOG | B113 MW113

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		15 16 22	100	63.7		SM		**Damp, dense, silty SAND with gravel, gray, moderate hydrocarbon odor (25-65-10).**	
20		8 8 9	100	5.2	B113-20	SP-SM		**Wet, medium dense, medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (10-75-15).**	
25		8 10 12	100	1.5		SM		**Wet, medium dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-60-15).**	
30									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	70-80	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	80	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS764		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/17/12
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	CCC
Date Completed:	12/17/12

BORING LOG | B113 MW113

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		12 13 10	100	0.3	B113-30	SM-ML		**Wet, medium dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10). Lacostrine sediments.**	
35		13 14 13	100	0.3		SM-ML		**Wet, medium dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (45-50-5). Lacostrine sediments.**	
40		9 11 14	100	0.0	B113-40	ML		**Damp, medium dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (80-20-0).**	
45									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	70-80	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	80	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS764		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/17/12
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: CCC
Date Completed: 12/17/12

BORING LOG | B113 MW113

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		11 17 15	100	2.1		SP-SM		**Wet, dense, medium to fine SAND with trace gravel, gray no solvent or hydrocarbon odor (10-85-5).**	
50		14 21 23	100	0.3	B113-50	SP-SM		**Wet, dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
55		20 22 20	100	0.9		SP		**Wet, dense, medium to fine SAND with trace silt, gray, no solvent or hydrocarbon odor (5-95-0).**	
60									

Drilling Co./Driller: Cascade
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 80 feet bgs
Total Well Depth: 80 feet bgs
State Well ID No.: BHS764

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 70-80 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/17/12
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	CCC
Date Completed:	12/17/12

BORING LOG | B113 MW113

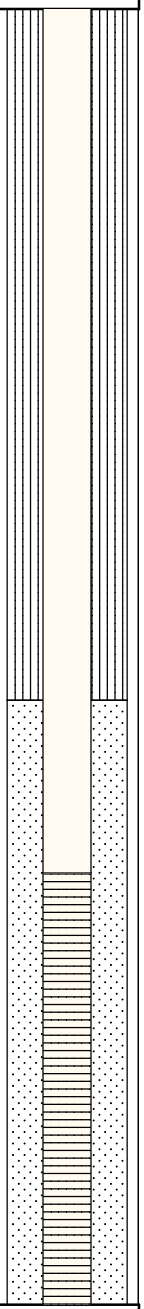
Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
60			0					**No recovery. Driller reports sandy material.**
65			0					**No recovery. Driller reports sandy material.**
70			0					**No recovery.**
75								

Well Construction Detail



Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	70-80	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	80	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS764		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/17/12
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	CCC
Date Completed:	12/17/12

BORING LOG | B113 MW113

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75			0					**No recovery. Driller reports sand.**	
			0					**No recovery. Driller reports sand.**	
80								**Boring terminated at 80 feet below ground surface. Two-inch-diameter well installed to a depth of 80 feet bgs, screened from 70 to 80 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW113.**	
85									
90									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	70-80	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	80	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS764		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/10/12
Surface Conditions: Gravel
Well Location N/S: 145.4' S of SE corner OF 700 Dexter bldg.
Well Location E/W: 75' W of SE corner OF 700 Dexter bldg.
Reviewed by: CCC
Date Completed: 12/10/12

BORING LOG | B114 MW114

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 17.05 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
5		2 2 3	50	0.8		SP-SM (FILL)		**Damp, loose, medium to fine SAND with gravel and silt, brown, no solvent or hydrocarbon odor (10-75-15). Fill material.**	
10									
15									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS768

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/10/12
Surface Conditions: Gravel
Well Location N/S: 145.4' S of SE corner OF 700 Dexter bldg.
Well Location E/W: 75' W of SE corner OF 700 Dexter bldg.
Reviewed by: CCC
Date Completed: 12/10/12

BORING LOG | B114 MW114

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 17.05 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/5"	100	0.0	B114-15	SM		**Dry, very dense, silty fine SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).**	
20		50/6"	100	0.0		SM		**Dry, very dense, silty fine SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).**	
25		50/6"	100	0.8	B114-25	SM		**Dry, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).**	
30									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS768

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/10/12
Surface Conditions: Gravel
Well Location N/S: 145.4' S of SE corner OF 700 Dexter bldg.
Well Location E/W: 75' W of SE corner OF 700 Dexter bldg.
Reviewed by: CCC
Date Completed: 12/10/12

BORING LOG | B114 MW114

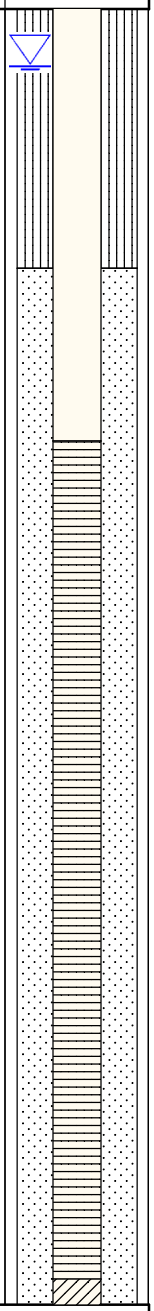
Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 30 feet bgs

Water Depth After Completion 17.05 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
30		50/6"	100	0.2		SP-SM		**Wet, very dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**
35		50/6"	100	42.8	B114-35	SM		**Moist, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (45-55-0).**
		50/6"	100	40.2		SM		**Moist, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (45-55-0).**
40		50/6"	100	0.8	B114-40	SM-SP		**Wet, very dense, medium to fine SAND with silt, light gray, no solvent or hydrocarbon odor (15-85-0).**
		50/2"	100	0.2		SM-ML		**Moist, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-45-15).**
45								

Well Construction Detail



Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS768

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/10/12
Surface Conditions: Gravel
Well Location N/S: 145.4' S of SE corner OF 700 Dexter bldg.
Well Location E/W: 75' W of SE corner OF 700 Dexter bldg.
Reviewed by: CCC
Date Completed: 12/10/12

BORING LOG | B114 MW114

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 30 feet bgs
Water Depth After Completion 17.05 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45	X	50/3"	100	1.3	B114-45	**SM-ML**		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-45-15).**	
								Boring terminated at 45.5 feet below ground surface. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW114.	
50									
55									
60									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS768

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35 to 45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/13/12
Surface Conditions:	Concrete
Well Location N/S:	25.6' N of SE corner of building on 9th and Roy
Well Location E/W:	18.6' E of SE corner of building on 9th and Roy
Reviewed by:	CCC
Date Completed:	12/13/12

BORING LOG | B115 MW115

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 1.5 feet thick at surface.**	
								Boring cleared with a vactor truck to a depth of 9 feet below ground surface.	
5									
10		3 7 7	80	1.4	B115-10	**SM (FILL)**		**Damp, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (30-55-15) (FILL).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS766		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/13/12
Surface Conditions: Concrete
Well Location N/S: 25.6' N of SE corner of building on 9th and Roy
Well Location E/W: 18.6' E of SE corner of building on 9th and Roy
Reviewed by: CCC
Date Completed: 12/13/12

BORING LOG | B115 MW115

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		15 15 15	60	0.8	B115-15	SM (FILL)		**Moist, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (30-55-15) (FILL).**	
20		7 5 3	100	0.8		SP-SM (FILL)		**Wet, loose, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (15-70-15) (FILL).**	
25		5 5 6	100	0.2	B115-25	SM (FILL)		**Wet, loose, silty SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10) (FILL).**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS766		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/13/12
Surface Conditions: Concrete
Well Location N/S: 25.6' N of SE corner of building on 9th and Roy
Well Location E/W: 18.6' E of SE corner of building on 9th and Roy
Reviewed by: CCC
Date Completed: 12/13/12

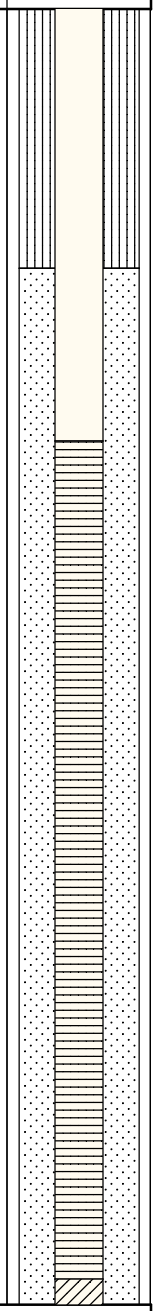
BORING LOG | B115 MW115

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description
30		7 10 10	100	0.8		SM		**Wet, medium dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-60-0).**
		7 9 7	100	0.2		ML		**Wet, medium dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (80-20-0). Lacostrine deposits.**
35		3 3 9	100	0.8	B115-35	MH		**Wet, medium dense, SILT with fine sand, plastic, gray, no solvent or hydrocarbon odor (80-20-0). Lacostrine deposits.**
		4 4 10	100	0.2		MH		**Wet, medium dense, SILT with fine sand and trace gravel, plastic, gray, no solvent or hydrocarbon odor (80-15-5). Lacostrine deposits.**
40		12 13 15	80	0.8		SM		**Wet, medium dense, silty fine SAND, gray, no solvent or hydrocarbon odor (40-60-0).**
		12 13 15	100	0.8		SP-SM		**Wet, medium dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**
45								

Well Construction Detail



Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS766		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/13/12
Surface Conditions: Concrete
Well Location N/S: 25.6' N of SE corner of building on 9th and Roy
Well Location E/W: 18.6' E of SE corner of building on 9th and Roy
Reviewed by: CCC
Date Completed: 12/13/12

BORING LOG | B115 MW115

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		23 50/6"	100	0.8	B115-45	**SP-SM**		**Wet, very dense, medium to fine SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
								Boring terminated at 46 feet bgs. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW115.	
50									
55									
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 silica sand	
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS766		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/7/12
Surface Conditions:	Concrete
Well Location N/S:	18' E of SE corner of retaurant on 9th and Roy
Well Location E/W:	106' N of SE corner of restaurant on 9th and Roy
Reviewed by:	CCC
Date Completed:	12/7/12

BORING LOG | B116 MW116

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 1.5' thick at surface.**	
								Borehole cleared to a depth of 9 feet bgs with a vactor truck.	
10		2 1 1	100	0.5		**SM (FILL)**		**Damp, very loose, silty SAND with trace gravel, light brown, no solvent or hydrocarbon odor (40-55-5).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	46.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS769		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/7/12
Surface Conditions: Concrete
Well Location N/S: 18' E of SE corner of retaurant on 9th and Roy
Well Location E/W: 106' N of SE corner of restaurant on 9th and Roy
Reviewed by: CCC
Date Completed: 12/7/12

BORING LOG | B116 MW116

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		2 1 1	100	0.0	B116-15	SM (FILL)		**Wet, very loose, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (35-55-10) (FILL).**	
20		4 3 4	100	0.5		SP-SM (FILL)		**Wet, loose, medium to fine SAND with silt and gravel, dark gray, no solvent or hydrocarbon odor (10-80-10) (FILL).**	
25		2 4 3	100	1.1	B116-25	SP-SM (FILL)		**Wet, loose, medium to fine SAND with silt and trace gravel, dark gray, no solvent or hydrocarbon odor (15-80-5) (FILL).**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand		
Total Boring Depth:	46.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHS769		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 12/7/12
Surface Conditions: Concrete
Well Location N/S: 18' E of SE corner of retaurant on 9th and Roy
Well Location E/W: 106' N of SE corner of restaurant on 9th and Roy
Reviewed by: CCC
Date Completed: 12/7/12

BORING LOG | B116 MW116

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		12 14 15	100	0.5		SP-SM		**Wet, medium dense, medium to fine SAND and silt and trace gravel, dark gray, no solvent or hydrocarbon odor (10-85-5).**	
						ML		**Damp, medium dense, SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-40-10).**	
		23 50/6"	100	1.1		SM-ML		**Moist, very dense, SILT with fine sand, slightly plastic, gray, no solvent or hydrocarbon odor (80-20-0).**	
35		12 22 23	100	0.5	B116-35	ML		**Moist, very dense, SILT with fine sand, slightly plastic, gray, no solvent or hydrocarbon odor (80-20-0).**	
		30 50/6"	100	1.1		ML		**Wet, very dense, SILT with fine sand, slightly plastic, gray, no solvent or hydrocarbon odor (80-20-0).**	
40		17 50/6"	100	0.5		ML		**Wet, very dense, SILT with fine sand, slightly plastic, gray, no solvent or hydrocarbon odor (80-20-0).**	
		17 50/6"	60	1.1		SM-ML		**Wet, very dense, SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
45									

Drilling Co./Driller: Cascade/Curtis
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 300 lbs
Total Boring Depth: 46.5 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BHS769

Well/Auger Diameter: 2/8.25 inches
Well Screened Interval: 35-45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Silica Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	12/7/12
Surface Conditions:	Concrete
Well Location N/S:	18' E of SE corner of retaurant on 9th and Roy
Well Location E/W:	106' N of SE corner of restaurant on 9th and Roy
Reviewed by:	CCC
Date Completed:	12/7/12

BORING LOG | B116 MW116

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		17 12 14	100		B116-45	**MH**		**Wet, medium dense, SILT with fine sand, plastic, dark gray, no solvent or hydrocarbon odor (90-10-0).**	
								Boring terminated at 46.5 feet below ground surface. Two-inch-diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW116.	
50									
55									
60									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Silica Sand	
Total Boring Depth:	46.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHS769		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	02/04/13
Surface Conditions:	Asphalt
Well Location N/S:	96' south of power pole at SE corner of the intersection of Roy and Dexter
Well Location E/W:	12.6' west of power pole at SE corner of the intersection of Roy and Dexter
Reviewed by:	CCC
Date Completed:	02/04/13

BORING LOG | B117 MW117

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling: 40 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt 6" thick.**	
								Boring cleared with a vactor truck to a depth of 8' below ground surface (bgs).	
5									
10		50/4"	10	0.0	B117-10	**SM**		**Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (30-55-15).**	
15									

Drilling Co./Driller:	Cascade Drilling Co./Curtis		**Well/Auger Diameter:**	2/8.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40 to 55	feet bgs	
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	#2/12 Sand		
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	55	feet bgs	**Annular Seal:**	Bentonite Chips		
State Well ID No.:	BHS 885		**Monument Type:**	Flush mount		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	02/04/13
Surface Conditions:	Asphalt
Well Location N/S:	96' south of power pole at SE corner of the intersection of Roy and Dexter
Well Location E/W:	12.6' west of power pole at SE corner of the intersection of Roy and Dexter
Reviewed by:	CCC
Date Completed:	02/04/13

BORING LOG | B117 MW117

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling: 40 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/5"	33	0.0	B117-15	SM		**Moist, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-65-10).**	
20		50/5"	33	0.0	B117-20	SP-SM		**Damp, very dense, medium to fine SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (15-75-10).**	
25		50/5"	30	0.0	B117-25	SM		**Damp, very dense, silty SAND with gravel, cohesive, light brown, no solvent or hydrocarbon odor (40-50-10).**	
30									

Drilling Co./Driller:	Cascade Drilling Co./Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40 to 55	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	#2/12 Sand	
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	55	feet bgs	**Annular Seal:**	Bentonite Chips	
State Well ID No.:	BHS 885		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	02/04/13
Surface Conditions:	Asphalt
Well Location N/S:	96' south of power pole at SE corner of the intersection of Roy and Dexter
Well Location E/W:	12.6' west of power pole at SE corner of the intersection of Roy and Dexter
Reviewed by:	CCC
Date Completed:	02/04/13

BORING LOG | B117 MW117

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling: 40 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/5"	30	0.0	B117-30	SM		**Wet, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-60-15).**	
35		50/5"	30	0.0	B117-35	SM		**Moist, very dense, silty SAND with gravel, gray, no solvent or hydrocabon odor (30-60-10).**	
40		50/6"	100	0.0	B117-40	SP-SM		**Wet, very dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
45									

Drilling Co./Driller:	Cascade Drilling Co./Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40 to 55	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	#2/12 Sand	
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	55	feet bgs	**Annular Seal:**	Bentonite Chips	
State Well ID No.:	BHS 885		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	02/04/13
Surface Conditions:	Asphalt
Well Location N/S:	96' south of power pole at SE corner of the intersection of Roy and Dexter
Well Location E/W:	12.6' west of power pole at SE corner of the intersection of Roy and Dexter
Reviewed by:	CCC
Date Completed:	02/04/13

BORING LOG | B117 MW117

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling: 40 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6"	100	0.0	B117-45	SP-SM		**Wet, very dense, medium to fine sand with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
50		50/5"	30	0.0	B117-50	SM-ML		**Moist, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (45-45-10).**	
55		50/5"	20	0.0	B117-55	SM ML		**Damp, very dense, silty SAND, gray, no solvent or hydrocarbon odor (20-80-0).** **Damp, very dense, SILT with fine sand, no solvent or hydrocarbon odor (55-45-0).**	
60								**Boring terminated at 55.5 feet below ground surface. A two-inch diameter well was installed to a depth of 55 feet bgs, screened from 40 to 55 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as moniotring well MW117.**	

Drilling Co./Driller:	Cascade Drilling Co./Curtis		**Well/Auger Diameter:**	2/8.25	inches
Drilling Equipment:	HSA LAR		**Well Screened Interval:**	40 to 55	feet bgs
Sampler Type:	Split-spoon		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	#2/12 Sand	
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	55	feet bgs	**Annular Seal:**	Bentonite Chips	
State Well ID No.:	BHS 885		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Asphalt
Well Location N/S: On S property line of vacant lot in sidewalk
Well Location E/W: On Mercer St, 76' E of NE corner of intersection with Dexter Ave N
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B118 MW118

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches of asphalt.**	
5		10 15 25	100			SM		**Moist, dense, silty fine SAND with medium-large gravel, brown, no solvent or hydrocarbon odor (30-55-15).**	
10		32 50/6	100	0.1	B118-10	SM		**Moist, very dense, silty fine SAND with gravel, increasing silt with depth, brown, no solvent or hydrocarbon odor (35-55-10).**	
15									

Drilling Co./Driller: Cascade Drilling/ James
Drilling Equipment: HSA
Sampler Type: D+M
Hammer Type/Weight: 300 lbs
Total Boring Depth: 55.5 feet bgs
Total Well Depth: 50 feet bgs
State Well ID No.: BIC 079

Well/Auger Diameter: 2 inches
Well Screened Interval: 40-50 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Asphalt
Well Location N/S: On S property line of vacant lot in sidewalk
Well Location E/W: On Mercer St, 76' E of NE corner of intersection with Dexter Ave N
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B118 MW118

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		26 50/5	150	0.0		SM ML		**Moist, very dense, silty fine SAND with some gravel, brown, no solvent or hydrocarbon odor (25-65-10).** **Moist, hard, fine sandy SILT, gray, no solvent or hydrocarbon odor (80-20-0).**	
20		50/6	125	0.0	B118-20	ML SP-SM SM-ML		**Moist, hard, fine sandy SILT, gray, no solvent or hydrocarbon odor (80-20-0).** **Moist to wet, very dense, fine to medium SAND with trace gravel and trace silt, no solvent or hydrocarbon odor (10-85-5).** **Moist, very dense, fine sandy SILT, gray-brown, no solvent or hydrocarbon odor (60-40-0).**	
25		50/6	125	0.1		SM		**Moist, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
30									

Drilling Co./Driller: Cascade Drilling/ James
Drilling Equipment: HSA
Sampler Type: D+M
Hammer Type/Weight: 300 lbs
Total Boring Depth: 55.5 feet bgs
Total Well Depth: 50 feet bgs
State Well ID No.: BIC 079

Well/Auger Diameter: 2 inches
Well Screened Interval: 40-50 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Flush mount

Notes/Comments:

SoundEarth Strategies

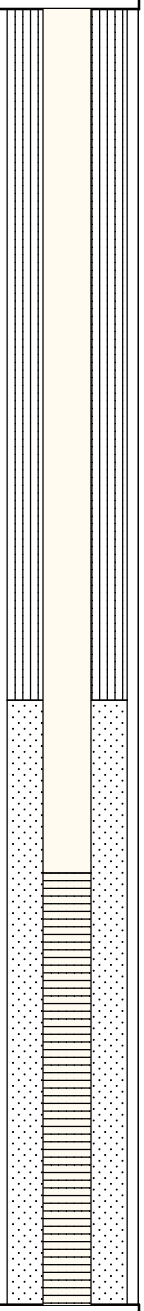
Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Asphalt
Well Location N/S: On S property line of vacant lot in sidewalk
Well Location E/W: On Mercer St, 76' E of NE corner of intersection with Dexter Ave N
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B118 MW118

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	125	3.0	B118-30	SM		**Moist to wet, very dense, silty fine to medium SAND with lenses of cleaner medium sand, gray, no solvent or hydrocarbon odor (25-75-0).**	
35		50/6	150	2.4		SM		**Wet, very dense, silty fine to medium SAND with trace fine gravel, gray, no solvent or hydrocarbon odor (20-75-5).**	
40		50/6	150		B118-40	SM SM-ML		**Wet, very dense, silty fine to medium SAND with trace fine gravel, gray, no solvent or hydrocarbon odor (20-75-5).** **Moist, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (45-55-0).**	
45									



Drilling Co./Driller:	Cascade Drilling/ James		**Well/Auger Diameter:**	2	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	40-50	feet bgs
Sampler Type:	D+M		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Cement	
Total Well Depth:	50	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIC 079		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Asphalt
Well Location N/S: On S property line of vacant lot in sidewalk
Well Location E/W: On Mercer St, 76' E of NE corner of intersection with Dexter Ave N
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B118 MW118

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 20 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/5	125	6.0		SM		**Moist to wet, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (35-65-0). Lenses of silty SAND present within sample (30-70-0).**	
50		50/5	125	1.2	B118-50	SM		**Moist, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
55		50/5	125			SM		**Moist, very dense, silty fine SAND with trace gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
								Boring terminated at 55.5 feet below ground surface (bgs). Boring was backfilled with bentonite chips to 50 feet bgs. Two-inch diameter well installed to a depth of 50 feet bgs, screened from 40 to 50 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW118.	
60									

Drilling Co./Driller:	Cascade Drilling/ James		**Well/Auger Diameter:**	2	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	40-50	feet bgs
Sampler Type:	D+M		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	Cement	
Total Well Depth:	50	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIC 079		**Monument Type:**	Flush mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Concrete
Well Location N/S: SW corner of intersection of Broad St and 9th Ave N
Well Location E/W:
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B119 MW119

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling 10 feet bgs

Water Depth After Completion feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete cored prior to drilling. Concrete 4 inches thick.**	
5		20 18 20	100			SM (FILL)		**Moist, dense, silty, gravelly, fine to medium SAND, brown, no solvent or hydrocarbon odor (15-70-15).**	
10		4 3 3	100	0.9	B119-10	SM (FILL)		**Moist to wet, loose, gravelly, silty, fine to medium SAND with some coarse sand, gray-brown, no solvent or hydrocarbon odor (15-65-20).**	
						ML (FILL)		**Moist, soft, fine sandy SILT with gravel, dark brown, black staining, wood debris, no solvent or hydrocarbon odor (60-30-10).**	
15									

Drilling Co./Driller: Cascade Drilling/ James
Drilling Equipment: HSA
Sampler Type: D+M
Hammer Type/Weight: 300 lbs
Total Boring Depth: 46 feet bgs
Total Well Depth: 45 feet bgs
State Well ID No.: BIC 080

Well/Auger Diameter: 2 inches
Well Screened Interval: 35-45 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Flush-mount

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Concrete
Well Location N/S: SW corner of intersection of Broad St and 9th Ave N
Well Location E/W:
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B119 MW119

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling 10 feet bgs
Water Depth After Completion feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		16 29 33	100	0.9		SM-ML		**Wet, very dense, silty fine SAND with trace gravel, blue-gray, no solvent or hydrocarbon odor (45-50-5).**	
20		10 7 10	30	0.9	B119-20	SM		**Wet, medium dense, silty fine SAND, organics, wood debris, glass shards, gray, no solvent or hydrocarbon odor (40-60-0).**	
25		10 10 10	100	0.7		SM ML		**Wet, medium dense, silty fine SAND, organics, wood debris, glass shards, dark brown, no solvent or hydrocarbon odor (35-50-15). Moist, stiff, SILT with fine sand, blue-gray, no solvent or hydrocarbon odor (90-10-0).**	
30									

Drilling Co./Driller:	Cascade Drilling/ James		**Well/Auger Diameter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs	
Sampler Type:	D+M		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Cement		
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BIC 080		**Monument Type:**	Flush-mount		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Concrete
Well Location N/S: SW corner of intersection of Broad St and 9th Ave N
Well Location E/W:
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B119 MW119

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling 10 feet bgs

Water Depth After Completion feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		30 50/6	150	0.1	B119-30	SP-SM		**Moist, very dense, fine SAND with silt, gray, no solvent or hydrocarbon odor (15-85-0).**	
35		13 15 15	100	0.9		SP-SM		**Moist to wet, medium dense, fine SAND with silt, gray, no solvent or hydrocarbon odor (15-85-0).**	
40		13 15 15	100	0.9	B119-40	SP-SM		**Wet, medium dense, fine SAND with some silt, brown, no solvent or hydrocarbon odor (10-90-0).**	
45									

Drilling Co./Driller:	Cascade Drilling/ James		**Well/Auger Diameter:**	2	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs
Sampler Type:	D+M		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Cement	
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BIC 080		**Monument Type:**	Flush-mount	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001-02
Logged by: EBF
Date Started: 03/21/13
Surface Conditions: Concrete
Well Location N/S: SW corner of intersection of Broad St and 9th Ave N
Well Location E/W:
Reviewed by: CCC
Date Completed: 03/21/13

BORING LOG | B119 MW119

Site Address: 700 Dexter Avenue North, Seattle, WA

Water Depth At Time of Drilling 10 feet bgs

Water Depth After Completion feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		28 50/6	125	1.0		SP		**Wet, very dense, fine to medium SAND with trace silt, gray to brown, no solvent or hydrocarbon odor (5-95-0).**	
								Boring terminated at 46 feet below ground surface (bgs). Two-inch diameter well installed to a depth of 45 feet bgs, screened from 35 to 45 feet bgs, and finished with a flush-mounted monument and concrete seal. Completed as monitoring well MW119.	
50									
55									
60									

Drilling Co./Driller:	Cascade Drilling/ James		**Well/Auger Diameter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	35-45	feet bgs	
Sampler Type:	D+M		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	46	feet bgs	**Surface Seal:**	Cement		
Total Well Depth:	45	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BIC 080		**Monument Type:**	Flush-mount		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/18/2013
Surface Conditions:	Concrete
Well Location N/S:	35' S of N wall
Well Location E/W:	46' E of W wall
Reviewed by:	CCC
Date Completed:	3/18/2013

BORING LOG | DB01

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 27.40 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 6 inches thick at surface.**	
5		18 50/6	100	1.3	B-1-05	**SP-SM (FILL)**		**Damp, very dense, medium to fine SAND with some silt, light brown, no solvent or hydrocarbon odor (10-90-0). Fill material.**	
						SM (FILL)		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (20-75-5). Fill material.**	
10		2 2 5	100	0.7	B-1-10	**SP-SM (FILL)**		**Moist, loose, medium to fine SAND with silt, brown, no solvent or hydrocarbon odor (10-90-0). Fill material.**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	41	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/18/2013
Surface Conditions: Concrete
Well Location N/S: 35' S of N wall
Well Location E/W: 46' E of W wall
Reviewed by: CCC
Date Completed: 3/18/2013

BORING LOG | DB01

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 27.40 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		12 15 17	100	0.0	B-1-15	SM		**Moist, medium dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (30-50-20).**	
20		11 10 9	100	0.0	B-1-20	ML		**Wet, medium dense SILT with fine sand and gravel, light brown, no solvent or hydrocarbon odor (50-30-20).**	
25		14 20 21	100	0.0	B-1-25	GM		**Moist, dense, silty gravelly SAND, brown, no solvent or hydrocarbon odor (15-35-50).**	
						SP-SM		**Moist, dense, medium fine SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-60-30).**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 41 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/18/2013
Surface Conditions:	Concrete
Well Location N/S:	35' S of N wall
Well Location E/W:	46' E of W wall
Reviewed by:	CCC
Date Completed:	3/18/2013

BORING LOG | DB01

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 27.40 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	0.1	B-1-30	SM		**Wet, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-55-20).**	
35		50/6	50	0.1	B-1-35	ML		**Wet, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
40		50/6	50	0.4	B-1-40	ML		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-40-10).**	
45								**Boring terminated at 41 feet below ground surface (bgs). Refusal due to large rock. A temporary well set with screen from 35-40 feet bgs. Backfilled with bentonite chips.**	

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	41	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/18/2013
Surface Conditions: Asphalt
Well Location N/S: 27.0' S of N wall
Well Location E/W: 156.9' E of west wall
Reviewed by: CCC
Date Completed: 3/18/2013

BORING LOG | DB02

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt at surface.**	
5		1 2 2	100	0.0	B-2-05	**ML (FILL)**		**Wet, soft SILT with gravel and fine sand, olive gray, no solvent or hydrocarbon odor. Black wood ash in bottom 3 inches (55-40-5). Fill material.**	
10		3 5 5	100	0.0	B-2-10	**ML (FILL)**		**Moist, stiff SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (50-45-5). Fill material.**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: feet bgs
State Well ID No.: --

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/18/2013
Surface Conditions: Asphalt
Well Location N/S: 27.0' S of N wall
Well Location E/W: 156.9' E of west wall
Reviewed by: CCC
Date Completed: 3/18/2013

BORING LOG | DB02

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		4 5 5	100	0.1	B-2-15	SP-SM		**Moist, loose, fine to medium SAND with silt, dark gray, no solvent or hydrocarbon odor (10-90-0).**	
						SM		**Moist, loose, silty fine SAND, dark gray, no solvent or hydrocarbon odor (35-65-0).**	
20		5 15 18	100	4.8	B-2-20	SM		**Moist, medium dense, silty medium to fine SAND with trace gravel, brown, no solvent or hydrocarbon odor (20-75-5)** **Damp, medium dense, silty fine to medium SAND, brown, no solvent or hydrocarbon odor (25-75-0).**	
25		15 50/6	1	0.7	B-2-25	GM		**Wet, very dense, GRAVEL with silt and sand, dark brown.**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: feet bgs
State Well ID No.: --

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/18/2013
Surface Conditions:	Asphalt
Well Location N/S:	27.0' S of N wall
Well Location E/W:	156.9' E of west wall
Reviewed by:	CCC
Date Completed:	3/18/2013

BORING LOG | DB02

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs

Water Depth After Completion 17 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		15 25 25	5	--	B-2-30	GM		**Wet, dense, silty gravelly SAND, brown, no solvent or hydrocarbon odor.**	
35		50/6	100	0.1	B-2-35	GM		**Wet, very dense, silty gravelly SAND, brown, no solvent or hydrocarbon odor (25-25-50).**	
40		50/6	100	0.1	B-2-40	SM-ML		**Damp, very dense, silty SAND with gravel, dark gray, cohesive, no hydrocarbon odor (40-40-20).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**		feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:		feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/18/2013
Surface Conditions: Asphalt
Well Location N/S: 27.0' S of N wall
Well Location E/W: 156.9' E of west wall
Reviewed by: CCC
Date Completed: 3/18/2013

BORING LOG | DB02

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 25 feet bgs
Water Depth After Completion 17 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45	X	50/5	40	1.3	B-2-45	SM		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor.**	
								Boring terminated at 46.5 feet below ground surface (bgs). A temporary well set with screen from 35 - 40 feet bgs. Collect water sample 20130318-B-2. Remove temporary casing and backfilled with bentonite chips. Finish with concrete.	
50									
55									
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: feet bgs
State Well ID No.: --

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Asphalt
Well Location N/S: 62' N of former building drive
Well Location E/W: 46' W of E property boundary
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB03

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 60 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt at surface.**	
5		3 4 3	100	0.5	DB03-05	**SM (FILL)**		**Damp, loose, silty SAND with gravel, brown, no solvent or hydrocarbon odor (15-80-5). Fill material.**	
10		4 7 7	100	0.0	Not Sampled	**GM (FILL)**		**Wet, medium dense, gravelly SILT with bricks, black, no solvent or hydrocarbon odor (10-10-80). Fill material.**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 60.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: BCI076

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: Portland Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Asphalt
Well Location N/S: 62' N of former building drive
Well Location E/W: 46' W of E property boundary
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB03

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 60 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		3 5 9	100	0.0	DB03-15	**SM (FILL)**		**Wet, loose, silty SAND with gravel, black, wood ash and metal debris, no solvent or hydrocarbon odor (20-65-15). Fill material.**	
20		7 7 7	100	0.5	DB03-20	**ML**		**Damp, medium dense SILT with fine sand, greenish gray, no solvent or hydrocarbon odor (60-40-0).**	
25		6 7 7	100	0.5	DB03-25	**SM**		**Wet, medium dense, silty medium SAND with gravel, dark gray, no solvent or hydrocarbon odor (40-50-10).**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 60.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: BCI076

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: Portland Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/27/2013
Surface Conditions:	Asphalt
Well Location N/S:	62' N of former building drive
Well Location E/W:	46' W of E property boundary
Reviewed by:	CCC
Date Completed:	3/27/2013

BORING LOG | DB03

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 60 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		10 10 10	100	0.5	DB03-30	ML		**Wet, very stiff SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
35		3 4 5	100	0.5	DB03-35	ML		**Moist, medium stiff SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
40		4 6 7	100	11.1	DB03-40	ML		**Moist, stiff SILT with fine sand, brown and gray, no solvent or hydrocarbon odor (60-40-0).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	60.5	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Portland Grout	
State Well ID No.:	BCI076		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Asphalt
Well Location N/S: 62' N of former building drive
Well Location E/W: 46' W of E property boundary
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB03

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 60 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		10 50/6	75	14.2	DB03-45	SM		**Wet, very dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (35-50-15).**	
50		50/6	50	8.9	DB03-50	SM		**Wet, very dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (30-50-20).**	
55		60/5	50	46.0	DB03-55	SM		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-55-45).**	
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 60.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: BCI076

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: Portland Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Asphalt
Well Location N/S: 62' N of former building drive
Well Location E/W: 46' W of E property boundary
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB03

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 60 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/6	50	4.7	DB03-60	SM		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-55-5).**	
								Boring terminated at 60.5 feet below ground surface(bgs). Set temperature monitoring point. Collect water sample 20130327-DB03-60.	
65									
70									
75									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 60.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: BCI076

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: Portland Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/21/2013
Surface Conditions:	Concrete
Well Location N/S:	84' S of N wall
Well Location E/W:	51' E of N wall
Reviewed by:	CCC
Date Completed:	3/21/2013

BORING LOG | DB04

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete at surface.**	
5		7 15 20	100	1.6	DB04-05	**GM-GP**		**Damp, dense, sandy GRAVEL with silt, brown, no solvent or hydrocarbon odor (10-30-60).**	
10		15 18 20	100	3.7	DB04-10	**SM**		**Moist, dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (35-50-15).**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	60.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/21/2013
Surface Conditions:	Concrete
Well Location N/S:	84' S of N wall
Well Location E/W:	51' E of N wall
Reviewed by:	CCC
Date Completed:	3/21/2013

BORING LOG | DB04

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		7 9 9	100	1.6	DB04-15	**SM**		**Wet, loose, silty SAND, light brown, no solvent or hydrocarbon odor (35-65-0).**	
20		12 12 12	100	45.9	DB04-20	**SP-SM**		**Damp, medium dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (15-65-20).**	
25		12 12 20	100	18.9	DB04-25	**ML-GM**		**Wet, medium dense, gravelly SILT with sand, light brown, no solvent or hydrocarbon odor (45-15-40).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	60.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/21/2013
Surface Conditions:	Concrete
Well Location N/S:	84' S of N wall
Well Location E/W:	51' E of N wall
Reviewed by:	CCC
Date Completed:	3/21/2013

BORING LOG | DB04

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	54.8	DB04-30	SM		**Damp, very dense, silty SAND, gray, no solvent or hydrocarbon odor (30-70-0).**	
35		50/6	50	98.6	DB04-35	ML		**Damp, hard SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (55-40-5).**	
40		50/6	50	27.5	DB04-40	ML		**Damp, hard SILT with fine sand and trace gravel, cohesive, gray, no solvent or hydrocarbon odor (55-40-5).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	60.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/21/2013
Surface Conditions: Concrete
Well Location N/S: 84' S of N wall
Well Location E/W: 51' E of N wall
Reviewed by: CCC
Date Completed: 3/21/2013

BORING LOG | DB04

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/5	50	17.8	DB04-45	ML		**Damp, hard SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (55-40-5). Set conductor at 45 feet bgs.**	
50		50/6	50	0.8	DB04-50	ML		**Damp, very dense SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-35-15).**	
55		50/6	50	0.8	DB04-55	SM		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 60.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/21/2013
Surface Conditions:	Concrete
Well Location N/S:	84' S of N wall
Well Location E/W:	51' E of N wall
Reviewed by:	CCC
Date Completed:	3/21/2013

BORING LOG | DB04

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60	X	50/6	50	0.8	DB04-60	**ML**		**Damp, very dense SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-35-15).**	
								Boring terminated at 60.5 feet below ground surface (bgs). Set temporary well at 60 feet bgs. Collected water sample 20130322-DB04-60.	
65									
70									
75									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	60.5	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	--	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/20/2013
Surface Conditions: Concrete
Well Location N/S: 12.5' N of S wall
Well Location E/W: 65.5' E of W wall
Reviewed by: CCC
Date Completed: 3/20/2013

BORING LOG | DB05

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 6 inches thick at surface.**	
5		20 25 20	80	1.0	DB05-05	**SP-SM**		**Damp, dense, medium to fine SAND with silt and gravel, light brown, no solvent or hydrocarbon odor (10-80-10).**	
10		14 23 24	100	0.6	DB05-10	**SM**		**Damp, dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (25-70-5).**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	12.5' N of S wall
Well Location E/W:	65.5' E of W wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB05

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/2	30	0.6	DB05-15	**SM**		**Damp, very dense, silty SAND, light brown, no solvent or hydrocarbon odor (35-65-0).**	
20		50/6	30	1.9	DB05-20	**ML-SM**		**Damp, very dense, silty SAND with gravel, cohesive, light brown, no solvent or hydrocarbon odor (40-45-15).**	
25		50/6	50	3.3	DB05-25	**ML-SM**		**Moist, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (40-45-15).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	12.5' N of S wall
Well Location E/W:	65.5' E of W wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB05

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/5	50	8.0	DB05-30	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
35		50/6	50	24.1	DB05-35	SM-ML		**Moist, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (45-45-10).**	
40		50/5	50	139.1	DB05-40	ML		**Damp, hard, fine sandy SILT with gravel, cohesive, gray, no solvent or hydrocarbon odor (55-35-10).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	12.5' N of S wall
Well Location E/W:	65.5' E of W wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB05

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/4	50	11.7	DB05-45	ML		**Damp, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (55-45-0).**	
50		50/5	50	0.9	DB05-50	SM		**Moist, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
55		50/6	55	0.9	DB05-55	SM		**Damp, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (40-50-10).**	
60									

Drilling Co./Driller:	Cascade/David		
Drilling Equipment:	HSA		
Sampler Type:	Dames and Moore		
Hammer Type/Weight:	140	lbs	
Total Boring Depth:	70.5	feet bgs	
Total Well Depth:	--	feet bgs	
State Well ID No.:	--		

Well/Auger Diameter:	1/4.25	inches
Well Screened Interval:	--	feet bgs
Screen Slot Size:	--	inches
Filter Pack Used:	--	
Surface Seal:	--	
Annular Seal:	--	
Monument Type:	--	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	12.5' N of S wall
Well Location E/W:	65.5' E of W wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB05

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/6	55	0.0	DB05-60	ML		**Damp, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-35-15).**	
65		50/6	50	0.0	DB05-65	SP-SM		**Moist to wet, very dense, medium to fine SAND with silt and gravel, gray, no solvent or hydrocarbon odor (10-80-10).**	
70		50/6	50	0.0	DB05-70	ML		**Damp, hard SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (70-25-5). Collect water sample 20130326-DB05-70.**	
								Boring terminated at 70.5 feet below ground surface (bgs).	
75									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/25/2013
Surface Conditions:	Concrete
Well Location N/S:	39' N of S wall
Well Location E/W:	90' E of W wall
Reviewed by:	CCC
Date Completed:	3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" concrete surfacing.**	
5		3 3 3	100	0.4	DB06-05	**SM (FILL)**		**Damp, loose, silty SAND, brown, no solvent or hydrocarbon odor (30-70-0). Fill material.**	
10		8 8 8	100	0.4	DB06-10	**SM (FILL)**		**Damp, medium dense, silty SAND, brown, no solvent or hydrocarbon odor (45-55-0). Fill material.**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	Sand		
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Portland Grout		
State Well ID No.:	BCI074		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/25/2013
Surface Conditions:	Concrete
Well Location N/S:	39' N of S wall
Well Location E/W:	90' E of W wall
Reviewed by:	CCC
Date Completed:	3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		11 12 16	100	0.4	DB06-15	SM		**Damp, medium dense, silty medium SAND, light brown, no solvent or hydrocarbon odor (40-60-0).**	
20		50/6	50	0.4	DB06-20	SM		**Damp, very dense, silty SAND with trace gravel, brown, no solvent or hydrocarbon odor (35-60-5).**	
25		50/5	50	4.9	DB06-25	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-55-10).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	Sand		
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Portland Grout		
State Well ID No.:	BCI074		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/25/2013
Surface Conditions:	Concrete
Well Location N/S:	39' N of S wall
Well Location E/W:	90' E of W wall
Reviewed by:	CCC
Date Completed:	3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/5	50	4.9	DB06-30	SM		**Wet, very dense, silty SAND, gray, no solvent or hydrocarbon odor (30-70-0).**	
35		50/6	50	14.0	DB06-35	ML		**Damp, hard SILT with sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (55-35-10).**	
40		50/5	50	1.3	DB06-40	SM		**Damp, very dense, silty fine SAND, gray, no solvent or hydrocarbon odor (30-70-0).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	Sand		
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Portland Grout		
State Well ID No.:	BCI074		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/25/2013
Surface Conditions: Concrete
Well Location N/S: 39' N of S wall
Well Location E/W: 90' E of W wall
Reviewed by: CCC
Date Completed: 3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	2.2	DB06-45	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
50		50/3	30	0.4	DB06-50	ML		**Damp, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (55-35-10).**	
55		50/6	55	0.4	DB06-55	ML		**Damp, hard SILT with fine sand and trace gravel, dark gray, no solvent or hydrocarbon odor (55-40-5).**	
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 80.5 feet bgs
Total Well Depth: 80 feet bgs
State Well ID No.: BCI074

Well/Auger Diameter: 2/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: Sand
Surface Seal: Concrete
Annular Seal: Portland Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/25/2013
Surface Conditions:	Concrete
Well Location N/S:	39' N of S wall
Well Location E/W:	90' E of W wall
Reviewed by:	CCC
Date Completed:	3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/5	50	0.4	DB06-60	ML		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (55-30-15).**	
65		50/3	50	0.9	DB06-65	SM		**Damp, very dense, silty SAND with gravel, dark gray, no solvent or hydrocarbon odor (40-45-15).**	
70		50/6	50	0.4	DB06-70	ML		**Damp, hard SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (60-25-15).**	
75									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	Sand		
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Portland Grout		
State Well ID No.:	BCI074		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/25/2013
Surface Conditions: Concrete
Well Location N/S: 39' N of S wall
Well Location E/W: 90' E of W wall
Reviewed by: CCC
Date Completed: 3/25/2013

BORING LOG | DB06

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
75		50/6	50	2.2	DB06-75	ML		**Moist to wet, hard SILT with fine sand, dark gray, no solvent or hydrocarbon odor (75-25-0).**	
80		50/6	50	0.9	DB06-80	ML		**Damp, hard SILT with fine sand and gravel, dark gray, no solvent or hydrocarbon odor (60-30-10).**	
								Boring terminated at 80.5 feet below ground surface (bgs). Set temperature monitoring point. Collect water sample 20130325-DB06-80.	
85									
90									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	Sand		
Total Boring Depth:	80.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	80	feet bgs	**Annular Seal:**	Portland Grout		
State Well ID No.:	BCI074		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/27/2013
Surface Conditions:	Concrete
Well Location N/S:	33' S of roll-up door
Well Location E/W:	127' E of W wall
Reviewed by:	CCC
Date Completed:	3/27/2013

BORING LOG | DB07

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**1.5 feet Concrete surfacing.**	
5		2 8 8	100	3.7	DB07-05	**SM**		**Moist, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (35-55-10).**	
10		7 8 10	100	6.8	DB07-10	**SM**		**Wet, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (25-55-20).**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/27/2013
Surface Conditions:	Concrete
Well Location N/S:	33' S of roll-up door
Well Location E/W:	127' E of W wall
Reviewed by:	CCC
Date Completed:	3/27/2013

BORING LOG | DB07

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		10 10 10	100	68.1	DB07-15	SM		**Wet, medium dense, silty medium SAND, brown, no solvent or hydrocarbon odor (30-70-0).**	
20		22 10 10	100	24.8	DB07-20	SM		**Wet, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (35-50-15).**	
25		50/6	50	39.6	DB07-25	SM		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Concrete
Well Location N/S: 33' S of roll-up door
Well Location E/W: 127' E of W wall
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB07

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6			DB07-30			**No recovery.**	
35		50/6	100	14.0	DB07-35	**SM**		**Wet, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (35-50-15).**	
40		50/6	50	5.2	DB07-40	**SM-ML**		**Wet, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (40-45-15).**	
45									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Concrete
Well Location N/S: 33' S of roll-up door
Well Location E/W: 127' E of W wall
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB07

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	30	23.6	DB07-45	SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (40-50-10).**	
50		50/3	30	5.2	DB07-50	SM		**Wet, very dense, silty SAND with gravel, gray (40-50-10). Sluff.**	
55		50/3	0	--				**No recovery.**	
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/27/2013
Surface Conditions: Concrete
Well Location N/S: 33' S of roll-up door
Well Location E/W: 127' E of W wall
Reviewed by: CCC
Date Completed: 3/27/2013

BORING LOG | DB07

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/3	30	1.7	DB07-60	ML		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (60-30-10).**	
65		50/5	50	7.0	DB07-65	ML		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (60-30-10).**	
70		50/4	50	6.1	DB07-70	ML		**Damp, hard SILT with fine sand and gravel, gray, cohesive, no solvent or hydrocarbon odor (60-30-10).**	
								Boring terminated at 70.5 feet below ground surface (bgs). Collected water sample 20130328-DB07-70.	
75									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/20/2013
Surface Conditions: Concrete
Well Location N/S: 27' N of S wall
Well Location E/W: 90' W of E wall
Reviewed by: CCC
Date Completed: 3/20/2013

BORING LOG | DB08

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 6 inches thick at surface.**	
5		7 14 9	100	0.7	DB08-05	**SP-SM (FILL)**		**Damp, medium dense, medium to fine SAND with silt, rust color, no solvent or hydrocarbon odor (10-90-0). Fill material.**	
10		50/6	50	0.7	DB08-10	**SM**		**Damp, very dense, silty SAND with trace gravel, brown, no solvent or hydrocarbon odor (20-75-5).**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: 70 feet bgs
State Well ID No.: BCI072

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Portland Cement grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	27' N of S wall
Well Location E/W:	90' W of E wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB08

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/5	30	1.5	DB08-15	SM		**Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (35-60-5).**	
20		50/6	50	11.7	DB08-20	SM-ML		**Damp, very dense SILT with sand and gravel, gray, no solvent or hydrocarbon odor (50-45-5).**	
25		50/6	50	0.7	DB08-25	ML		**Moist, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	70	feet bgs	**Annular Seal:**	Portland Cement grout		
State Well ID No.:	BCI072		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	27' N of S wall
Well Location E/W:	90' W of E wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB08

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	14.6	DB08-30	ML		**Moist, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (65-35-0).**	
35		50/5	50	30.6	DB08-35	SM		**Wet, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (35-60-15).**	
40		50/6	15	0.0	DB08-40	SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (25-65-10).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	70	feet bgs	**Annular Seal:**	Portland Cement grout		
State Well ID No.:	BCI072		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/20/2013
Surface Conditions:	Concrete
Well Location N/S:	27' N of S wall
Well Location E/W:	90' W of E wall
Reviewed by:	CCC
Date Completed:	3/20/2013

BORING LOG | DB08

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	0.7	DB08-45	SM		**Damp, very dense, silty fine SAND with gravel, gray, no solvent or hydrocarbon odor (30-60-10).**	
50		50/5	50	13.5	DB08-50	SM		**Wet, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (20-70-10).**	
55		50/5	20	3.7	DB08-55	SM		**Wet, very dense, silty medium SAND with gravel, gray, no solvent or hydrocarbon odor (20-70-10).**	
60									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25/10.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	70	feet bgs	**Annular Seal:**	Portland Cement grout	
State Well ID No.:	BCI072		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/20/2013
Surface Conditions: Concrete
Well Location N/S: 27' N of S wall
Well Location E/W: 90' W of E wall
Reviewed by: CCC
Date Completed: 3/20/2013

BORING LOG | DB08

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/5	20	4.8	DB08-60	ML		**Damp, hard SILT with medium and fine sand, gray, no solvent or hydrocarbon odor (65-35-0). Collect water sample 20130321-DB08-60 at 60' bgs.**	
65		50/6	50	7.0	DB08-65	ML		**Moist, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (55-45-0).**	
70		50/6	20	2.7	DB08-70	ML		**Moist, hard silty fine SAND, trace gravel, gray, cohesive, no solvent or hydrocarbon odor (55-40-5).**	
								Boring terminated at 70.5 feet below ground surface (bgs). Set temperature monitoring point at 70' bgs.	
75									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: 70 feet bgs
State Well ID No.: BCI072

Well/Auger Diameter: 1/4.25/10.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Portland Cement grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/19/2013
Surface Conditions:	Concrete
Well Location N/S:	27.5' N of S wall
Well Location E/W:	36' W of E wall
Reviewed by:	CCC
Date Completed:	3/19/2013

BORING LOG | DB09

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete at surface.**	
5		2 1 2	100	0.0	DB09-05	**SM (FILL)**		**Damp, very loose, silty SAND with gravel and brick fragments, dark brown, no solvent or hydrocarbon odor (25-65-10). Fill material.**	
10		5 7 9	100	0.0	DB09-10	**SM (FILL)**		**Damp, medium dense, silty SAND with gravel and brick fragments, dark brown, no solvent or hydrocarbon odor (25-65-10). Fill material.**	
								FILL	
15									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	1/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	70.8	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	70.5	feet bgs	**Annular Seal:**	Grout	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/19/2013
Surface Conditions: Concrete
Well Location N/S: 27.5' N of S wall
Well Location E/W: 36' W of E wall
Reviewed by: CCC
Date Completed: 3/19/2013

BORING LOG | DB09

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/6	30	0.0	DB09-15	SM		**Wet, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (30-60-10).**	
20		10 8 6	100	0.0	DB09-20	SM		**Wet, medium dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (25-60-15).**	
25		17 50/6	50	0.0	DB09-25	SM		**Wet, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (35-55-10).**	
30									

Drilling Co./Driller: Cascade
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.8 feet bgs
Total Well Depth: 70.5 feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/19/2013
Surface Conditions:	Concrete
Well Location N/S:	27.5' N of S wall
Well Location E/W:	36' W of E wall
Reviewed by:	CCC
Date Completed:	3/19/2013

BORING LOG | DB09

Site Address: 700 Dexter Avenue North, Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	60	0.0	DB09-30	SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (30-55-15).**	
35		50/6	50	0.0	DB09-35	SM		**Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (25-65-10).**	
40		50/2	10	0.0	DB09-40	SM		**Collected water sample 20130319-DB09-40.** **Damp, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (30-60-10).**	
45									

Drilling Co./Driller:	Cascade		**Well/Auger Diameter:**	1/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	70.8	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	70.5	feet bgs	**Annular Seal:**	Grout		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/19/2013
Surface Conditions: Concrete
Well Location N/S: 27.5' N of S wall
Well Location E/W: 36' W of E wall
Reviewed by: CCC
Date Completed: 3/19/2013

BORING LOG | DB09

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	0.0	DB09-45	SM		**Moist, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (35-60-5).**	
50		50/4	30	0.0	DB09-50	SM		**Moist, very dense, silty SAND with gravel, cohesive, gray, no solvent or hydrocarbon odor (30-60-5).**	
55		50/6	25	0.0	DB09-55	ML		**Damp, hard, SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-45-5).**	
60									

Drilling Co./Driller: Cascade
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.8 feet bgs
Total Well Depth: 70.5 feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/19/2013
Surface Conditions: Concrete
Well Location N/S: 27.5' N of S wall
Well Location E/W: 36' W of E wall
Reviewed by: CCC
Date Completed: 3/19/2013

BORING LOG | DB09

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling 15 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/6	50	0.0	DB09-60	ML		**Damp, hard SILT with fine sand and trace gravel, cohesive, gray, no solvent or hydrocarbon odor (55-40-5).**	
65		50/6	50	0.0	DB09-65	ML		**Damp, hard SILT with fine sand and trace gravel, cohesive, gray, no solvent or hydrocarbon odor (55-40-5).**	
70		50/6	50	0.0	DB09-70	ML		**Damp, hard SILT with fine sand and gravel, cohesive, dark gray, no solvent or hydrocarbon odor (50-40-10).**	
								Boring terminated at 70 feet below ground surface (bgs). Set temperature monitoring point at 70 feet bgs.	
75									

Drilling Co./Driller: Cascade
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.8 feet bgs
Total Well Depth: 70.5 feet bgs
State Well ID No.: --

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Grout
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/24/2013
Surface Conditions: Concrete
Well Location N/S: 180' S of N wall
Well Location E/W: 19' E of W wall
Reviewed by: CCC
Date Completed: 3/24/2013

BORING LOG | DB10

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 6 inches thick at surface.**	
5		2 2 6	100	0.5	DB10-05	**SM (FILL)**		**Moist, loose, silty SAND with gravel, brown, no hydrocarbon odor (25-65-10). Fill material.**	
10		9 9 9	100	6.8	DB10-10	**SM-ML**		**Wet, medium dense, silty SAND with gravel, brown, no hydrocarbon odor (45-45-10).**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: feet bgs
State Well ID No.:

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/24/2013
Surface Conditions:	Concrete
Well Location N/S:	180' S of N wall
Well Location E/W:	19' E of W wall
Reviewed by:	CCC
Date Completed:	3/24/2013

BORING LOG | DB10

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		50/6	50	65.7	DB10-15	SM-ML		**Moist, very dense, silty SAND with gravel, brown, cohesive, no solvent or hydrocarbon odor (40-45-15).**	
20		50/6	50	120.5	DB10-20	ML		**Damp, hard SILT with fine sand and trace gravel, gray, no solvent or hydrocarbon odor (55-40-5).**	
25		50/6	50	4.7	DB10-25	SM-ML		**Damp, very dense, silty SAND with gravel, gray, no solvent or hydrocarbon odor (40-45-15).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:		feet bgs	**Annular Seal:**	--	
State Well ID No.:			**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/24/2013
Surface Conditions:	Concrete
Well Location N/S:	180' S of N wall
Well Location E/W:	19' E of W wall
Reviewed by:	CCC
Date Completed:	3/24/2013

BORING LOG | DB10

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	396	DB10-30	ML		**Damp, hard SILT with fine sand, cohesive, gray, solvent odor (55-40-5).**	
35		50/6	50	2,493	DB10-35	ML		**Damp, hard SILT with fine sand, cohesive, gray, solvent odor (55-45-5).**	
40		50/6	50	92.1	DB10-40	ML		**Moist, hard SILT with fine sand and trace gravel, gray, solvent odor. Collected water sample 20130329-DB10-40. Set conductor casing at 40 feet bgs.**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:		feet bgs	**Annular Seal:**	--	
State Well ID No.:			**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	3/24/2013
Surface Conditions:	Concrete
Well Location N/S:	180' S of N wall
Well Location E/W:	19' E of W wall
Reviewed by:	CCC
Date Completed:	3/24/2013

BORING LOG | DB10

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	82.6	DB10-45	SP-SM		**Wet, very dense, medium to fine SAND with gravel and silt, gray, solvent odor (10-80-10).**	
50		50/3	30	425	DB10-50	ML		**Damp, hard SILT with fine sand, cohesive, gray, solvent odor (65-35-0).**	
55		50/6	50	23.0	DB10-55	ML		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (55-40-5).**	
60									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	1/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	70.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:		feet bgs	**Annular Seal:**	--	
State Well ID No.:			**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 3/24/2013
Surface Conditions: Concrete
Well Location N/S: 180' S of N wall
Well Location E/W: 19' E of W wall
Reviewed by: CCC
Date Completed: 3/24/2013

BORING LOG | DB10

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
60		50/5	50	28.9	DB10-60	ML		**Damp, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (55-45-0).**	
65		50/6	50	16.1	DB10-65	ML		**Damp, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
70		50/6	50	6.3	DB10-70	ML		**Damp to moist, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (50-50-0).**	
								Boring terminated at 70.5 feet below ground surface (bgs). Collected water sample 20130401-DB10-70.	
75									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 70.5 feet bgs
Total Well Depth: feet bgs
State Well ID No.:

Well/Auger Diameter: 1/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/02/2013
Surface Conditions: Concrete
Well Location N/S: 18.5' N of S wall
Well Location E/W: 14' E of W wall
Reviewed by: CCC
Date Completed: 04/02/2013

BORING LOG | DB11

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" Concrete surfacing.**	
5		7 1 15	100	0.0	DB11-05	SM		**Damp, medium dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (15-70-15).**	
10		50/6	50	0.0	DB11-10	SM		**Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (20-65-15).**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 55.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/02/2013
Surface Conditions:	Concrete
Well Location N/S:	18.5' N of S wall
Well Location E/W:	14' E of W wall
Reviewed by:	CCC
Date Completed:	04/02/2013

BORING LOG | DB11

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		43 50/5	75	0.0	DB11-15	SM		**Damp, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (15-75-10).**	
20		31 50/3	50	0.6	DB11-20	SM		**Moist, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon odor (40-50-10).**	
25		50/6	50	2.4	DB11-25	SM		**Moist, very dense, silty SAND with gravel, light brown, no solvent or hydrocarbon (40-50-10).**	
30									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/02/2013
Surface Conditions:	Concrete
Well Location N/S:	18.5' N of S wall
Well Location E/W:	14' E of W wall
Reviewed by:	CCC
Date Completed:	04/02/2013

BORING LOG | DB11

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	0.6	DB11-30	ML		**Moist, hard SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0).**	
35		50/6	50	0.6	DB11-35	ML		**Moist, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
40		50/5	50	0.0	DB11-40	ML		**Damp, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/02/2013
Surface Conditions:	Concrete
Well Location N/S:	18.5' N of S wall
Well Location E/W:	14' E of W wall
Reviewed by:	CCC
Date Completed:	04/02/2013

BORING LOG | DB11

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	24.6	DB11-45	SM		**Wet, very dense, silty medium to fine SAND with gravel, gray, no solvent or hydrocarbon odor (15-75-10).**	
50		50/6	50	0.4	DB11-50	ML		**Moist, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
55		50/6	50	0.4	DB11-55	ML		**Damp, hard SILT with fine sand and gravel, gray, no solvent or hydrocarbon odor (50-40-10).**	
								Boring terminated at 55.5 feet below ground surface (bgs). Temporary well set from 50 to 55 feet bgs. Collect groundwater sample 20130402-DB11-55.	
60									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	55.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/03/2013
Surface Conditions:	Concrete
Well Location N/S:	89' S of N wall
Well Location E/W:	117' E of W wall
Reviewed by:	CCC
Date Completed:	04/03/2013

BORING LOG | DB12

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" Concrete surfacing.**	
5		10 10 10	100	0.0	DB12-05	**SP (FILL)**		**Damp, medium dense, medium to fine SAND with silt, brown, no solvent or hydrocarbon odor (10-90-0). Fill material.**	
10		10 10 11	100	112	DB12-10	**SP (FILL)**		**Damp, medium dense, medium to fine SAND with silt and gravel, brown, no solvent or hydrocarbon odor (10-80-10). Fill material.**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/03/2013
Surface Conditions: Concrete
Well Location N/S: 89' S of N wall
Well Location E/W: 117' E of W wall
Reviewed by: CCC
Date Completed: 04/03/2013

BORING LOG | DB12

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		3 5 8	100	110.9	DB12-15	**SM**		**Wet, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (30-50-20).** **Set temporary screen at 15 feet bgs. Collected water sample 20130403-DB12-15.**	
20		9 9 9	100	82.0	DB12-20	**ML**		**Moist, very stiff, SILT with fine sand, gray with brown mottling, no solvent or hydrocarbon odor (60-40-0).**	
25		7 6 5	100	75.1	DB12-25	**ML**		**Moist, stiff, SILT with fine sand, brown, no solvent or hydrocarbon odor (60-40-0).**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/03/2013
Surface Conditions: Concrete
Well Location N/S: 89' S of N wall
Well Location E/W: 117' E of W wall
Reviewed by: CCC
Date Completed: 04/03/2013

BORING LOG | DB12

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		7 8 10	100	65.1	DB12-30	SM		**Moist, medium dense, silty medium SAND with gravel, brown, no solvent or hydrocarbon odor (30-50-20).**	
35		3 3 5	100	13.4	DB12-35	SM-GM		**Wet, loose, silty sandy GRAVEL, brown, no solvent or hydrocarbon odor (30-40-30).**	
40		50/6	50	51.5	DB12-40	SP-SM		**Wet, very dense, medium to fine SAND with silt and trace gravel, gray, no solvent or hydrocarbon odor (10-85-5).**	
45									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/03/2013
Surface Conditions:	Concrete
Well Location N/S:	89' S of N wall
Well Location E/W:	117' E of W wall
Reviewed by:	CCC
Date Completed:	04/03/2013

BORING LOG | DB12

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45	X	50/6	50	75.1	DB12-45	SM		**Damp, very dense, silty SAND with gravel, gray, no hydrocarbon odor (35-50-15).** **Set temporary screen from 40 to 45 feet bgs.** **Collected water sample 20130403-DB12-45.** **Boring terminated at 45.5 feet below ground surface (bgs).**	
50									
55									
60									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/03/2013
Surface Conditions:	Concrete
Well Location N/S:	45.8' N of S wall
Well Location E/W:	63.8' W of E wall
Reviewed by:	CCC
Date Completed:	04/03/2013

BORING LOG | DB13

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**6" Concrete surfacing.**	
5		1 2 3	100	0.0	DB13-05	**ML**		**Moist, medium stiff, silty fine SAND and gravel, brown, no solvent or hydrocarbon odor (50-40-10).**	
10		7 8 9	100	0.4	DB13-10	**ML**		**Moist, very stiff, SILT with fine sand and gravel, brown, no solvent or hydrocarbon odor (60-30-10).**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/03/2013
Surface Conditions: Concrete
Well Location N/S: 45.8' N of S wall
Well Location E/W: 63.8' W of E wall
Reviewed by: CCC
Date Completed: 04/03/2013

BORING LOG | DB13

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		10 10 10	100	0.6	DB13-15	SM		**Wet, medium dense, silty SAND with gravel, brown, no solvent or hydrocarbon odor (35-55-10).** **Set temporary well at 15' bgs. Collected water sample 20130403-DB13-15.**	
20		14 15 15	100	4.4	DB13-20	SM		**Damp, medium dense, silty SAND with gravel, brown, cohesive, no solvent or hydrocarbon odor (35-55-10).**	
25		50/6	50	NR	DB13-25			**No recovery.**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 45.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/03/2013
Surface Conditions:	Concrete
Well Location N/S:	45.8' N of S wall
Well Location E/W:	63.8' W of E wall
Reviewed by:	CCC
Date Completed:	04/03/2013

BORING LOG | DB13

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		50/6	50	18.4	DB13-30	**SM**		**Damp, very dense, silty SAND with gravel, gray, cohesive, no solvent or hydrocarbon odor (35-55-10).**	
35		50/6	50	40.2	DB13-35	**ML**		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-40-10).**	
40		50/6	50	3.4	DB13-40	**ML**		**Damp, hard SILT with fine sand and gravel, cohesive, gray, no solvent or hydrocarbon odor (50-40-10).**	
45									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	--	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project:	700 Dexter
Project Number:	0797-001
Logged by:	RAH
Date Started:	04/03/2013
Surface Conditions:	Concrete
Well Location N/S:	45.8' N of S wall
Well Location E/W:	63.8' W of E wall
Reviewed by:	CCC
Date Completed:	04/03/2013

BORING LOG | DB13

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		50/6	50	2.0	DB13-45	ML		**Moist, hard, silty fine SAND and gravel, gray, no solvent or hydrocarbon odor (50-40-10). Collected water sample 20130403-DB13-45.** **Boring terminated at 45.5 feet below ground surface (bgs).**	
50									
55									
60									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	45.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/04/2013
Surface Conditions: Asphalt
Well Location N/S: 26' S of N property boundary
Well Location E/W: 37' W of E property boundary
Reviewed by: CCC
Date Completed: 04/04/2013

BORING LOG | DB14

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**4" Asphalt surfacing.**	
5		3 3 3	100		DB14-05	**ML (FILL)**		**Moist, loose, SILT with fine sand, gray, no solvent or hydrocarbon odor (60-40-0). Fill material.**	
10		1 2 3	100		DB14-10	**ML (FILL)**		**Wet, loose, SILT with fine sand and trace gravel, wood waste, black, moderate hydrocarbon odor. Fill material.**	
15									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	--/4.25	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	46.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/04/2013
Surface Conditions: Asphalt
Well Location N/S: 26' S of N property boundary
Well Location E/W: 37' W of E property boundary
Reviewed by: CCC
Date Completed: 04/04/2013

BORING LOG | DB14

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		2 2 2	100		DB14-15	**SM (FILL)**		**Wet, very loose, silty SAND with gravel wood waste and miscellaneous debris, black, hydrocarbon odor (25-65-10). Fill material. Set temporary well and collected water sample 20130404-DB14-15**	
20		2 3 4	50		DB14-20	**ML (FILL)**		**Wet, loose, SILT with fine sand gravel and miscellaneous debris, black, slight hydrocarbon odor (60-35-5). Fill material.**	
25		4 8 14	100		DB14-25	**ML**		**Moist, very stiff, SILT with fine sand, greenish gray, no solvent or hydrocarbon odor (55-45-0).**	
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 46.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/04/2013
Surface Conditions: Asphalt
Well Location N/S: 26' S of N property boundary
Well Location E/W: 37' W of E property boundary
Reviewed by: CCC
Date Completed: 04/04/2013

BORING LOG | DB14

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
30		14 50/6	50		DB14-30	ML		**Damp, very dense SILT with fine sand, light brown, no solvent or hydrocarbon odor (55-45-0).**	
35		7 10 12	100		DB14-35	SM		**Wet, very dense, silty SAND with trace gravel, gray, no solvent or hydrocarbon odor (35-60-5).**	
40		14 14 14	100		DB14-40	SP-SM		**Wet, medium dense, medium to fine SAND with silt, gray, no solvent or hydrocarbon odor (10-90-0).**	
45									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 46.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project: 700 Dexter
Project Number: 0797-001
Logged by: RAH
Date Started: 04/04/2013
Surface Conditions: Asphalt
Well Location N/S: 26' S of N property boundary
Well Location E/W: 37' W of E property boundary
Reviewed by: CCC
Date Completed: 04/04/2013

BORING LOG | DB14

Site Address: 700 Dexter Avenue North
Seattle, Washington

Water Depth At Time of Drilling -- feet bgs

Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
45		11 20 40	100		DB14-45	**SM**		**Moist, very dense, silty SAND, gray, no solvent or hydrocarbon odor (35-65-0). Set temporary well at 45 feet bgs and collected water sample 20130404-DB14-45.**	
								Boring terminated at 46.5 feet below ground surface (bgs).	
50									
55									
60									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: Dames and Moore
Hammer Type/Weight: 140 lbs
Total Boring Depth: 46.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/4.25 inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite
Monument Type: --

Notes/Comments:

APPENDIX D
SLUG TEST RESULTS

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

APPENDIX D
SLUG TEST METHODS AND RESULTS

Field Methods

Slug testing was conducted March 27 through March 29, 2013, to estimate hydraulic conductivities of the multiple water-bearing zones encountered beneath and downgradient of the Property. A total of 13 wells were tested in both the intermediate water-bearing zone and the deep outwash aquifer, as listed below:

- Intermediate water-bearing zone—Interval A wells: MW107, MW108, MW109, MW110, MW114, MW115, and MW116.
- Intermediate water-bearing zone—Interval B wells: MW111, W-MW01, and W-MW02.
- Deep outwash aquifer wells: MW104, MW105, and MW113.

Depths and characteristics of the intermediate water-bearing zone and the deep outwash aquifer are described in Section 2.9 of the Remedial Investigation Report. At least one set of both falling head and rising head slug tests were completed and analyzed in each of the wells, except for well MW111. Only one falling head slug test completed in well MW111 was considered to have resulted in data acceptable for analysis.

The slug consisted of an 8-foot-long, 1-inch-diameter, PVC pipe filled with clean sand. Water levels were monitored during the slug tests using Instrumentation Northwest (INW) PT2X vented pressure transducers that incorporate automatic logging of water level data using INW software Aqui4Plus. The pressure transducer data logger was programmed to record readings at intervals ranging from 1 second to 1 minute during the tests. An electronic water level meter was also used to obtain periodic manual water level measurements during the slug tests.

Prior to conducting the tests, each well was opened and allowed to equilibrate with the atmosphere for at least 15 minutes. The pressure transducer was placed at a depth of at least 2 feet below the targeted submergence depth of the slug bottom. Water levels were monitored after placing the pressure transducer in the well to confirm that the water level had re-stabilized prior to inserting the slug.

The falling head test (slug in) commenced by quickly lowering the slug into the monitoring well until the slug was completely submerged below the initial water level. The falling head test continued until the measured water levels returned to within at least 99 percent of the initial water level. The rising head test (slug out) commenced by quickly removing the slug from the well and monitoring the rising water levels until the levels returned to within at least 98 percent of the water level measured at the start of the test.

All equipment placed in the monitoring wells was decontaminated following similar procedures as used for decontaminating groundwater sampling equipment at the Site. Decontamination water was placed in the designated 55-gallon drum(s) on the Property for temporary storage of decontamination and well purge water from other Site field activities.

Test Analysis and Results

Following field testing, the water level data were downloaded from the pressure transducers, compiled, and processed for analysis. Data processing included selecting the time interval of interest, reducing the measurement frequency where appropriate, and converting the water levels to displacements (change versus the initial water level). Time series files of the recorded displacements for each test were then exported to AquiferWin32 version 4.05 (Environmental Simulations, Inc., 2012) for analysis.

The Cooper, Bredehoeft, and Papadopulos (1967) analysis was applied to the resulting rising and falling head (water level) data. This analytical solution assumes the following:

- Aquifer is fully confined.
- Aquifer is homogeneous, isotropic, and of uniform thickness.
- Aquifer has infinite areal extent.
- Well loss is negligible.
- Groundwater flow is horizontal and unsteady.
- Elastic storage mechanisms affect test results.
- A volume of water or slug is instantaneously injected into, or is discharged from, the well.
- Well is of finite diameters and fully penetrates the aquifer.

These aquifer and well assumptions were generally met for the slug testing and analysis with respect to the Site data needs and project objectives. The primary discrepancies with the listed assumptions pertain to the heterogeneous nature of the intermediate water-bearing zone and potential partial well penetration effects. Because of the varied lithologies and unknown thicknesses of individual water-bearing intervals, the well screen length (10 feet in all wells tested) was used in lieu of aquifer thickness to calculate hydraulic conductivity estimates.

Estimates of transmissivity were obtained by manually best-fit matching of the data curve to a series of method type curves using the AquiferWin32 software program. Graphs of the matched data curves selected for each of the tests are included in this appendix. Table D-1 summarizes the results of the slug test analyses, including calculated hydraulic conductivity estimates.

The time for water levels to recover during slug tests ranged from about 1 to 55 minutes in wells screened in Interval A of the intermediate water-bearing zone. Average hydraulic conductivity estimates for each of the wells completed in this water-bearing zone range from about 0.47 to 62.6 feet per day (ft/day), as shown in Table D-1. Analysis of slug test data for wells completed with Interval B had generally longer recovery times (16 to 196 minutes), corresponding to average hydraulic conductivity estimates ranging from about 0.014 to 0.58 ft/day.

Water level recovery times in the wells screened in the deep outwash aquifer were short, ranging between 1.4 and 9.6 minutes. Results from the slug test analysis indicate that the average hydraulic conductivity in the deep outwash aquifer in the vicinity of the three wells tested for this aquifer ranges from about 4.3 to 54 ft/day, as shown in Table D-1.

References

Cooper, H.H., J.D. Bredehoeft and I.S. Papadopulos. 1967. "Response of a finite-diameter well to an instantaneous charge of water." *Water Resources Research.* 3 (no 1): pp. 263–269.

Environmental Simulations, Inc. 2012. Guide to Using AquiferWin32 Version 4. 448p.

SoundEarth Strategies

Table D-1
Summary of Slug Test Results
Cooper, Bredehoeft, Papadopulos (1967) Analysis
Frontier Environmental Management
700 Dexter Ave N
Seattle, Washington

Draft - Issued for Client Review

Well ID	Water-Bearing Zone	Well Screen Elevation Interval (ft above mean sea level)	Well Screen Depth Interval (ft bgs)	Slug Test ID	Transmissivity (ft^2/day)	Hydraulic Conductivity (ft/day)	Average Hydraulic Conductivity (ft/day)	Average Hydraulic Conductivity (cm/sec)
MW107	Intermediate "A"	9.2 to 0.2	35 to 45	MW107_Fall1	4.7522	0.4752	0.4667	1.88E-05
				MW107_Rise1	4.5815	0.4581		
MW108	Intermediate "A"	-6.9 to -16.9	40 to 50	MW108_Fall1	108.5036	10.85	12.77	4.51E-03
				MW108_Fall2	103.2454	10.32		
				MW108_Rise1	153.9149	15.39		
				MW108_Rise2	145.2177	14.52		
MW109	Intermediate "A"	0.7 to -9.3	35 to 45	MW109_Fall2	74.0381	7.404	7.621	2.69E-03
				MW109_Fall3	79.4752	7.948		
				MW109_Rise2	71.1158	7.112		
				MW109_Rise3	80.2109	8.021		
MW110	Intermediate "A"	5.0 to -5.0	35 to 45	MW110_Fall1	11.5254	1.153	1.213	4.28E-04
				MW110_Rise1	12.7297	1.273		
MW114	Intermediate "A"	11.4 to 1.4	35 to 45	MW114_Fall1	5.7287	0.5729	1.023	3.61E-04
				MW114_Rise1	9.6552	0.9655		
				MW114_Rise2	15.2921	1.5292		
MW115	Intermediate "A"	-0.5 to -10.5	35 to 45	MW115_Fall1	646.9723	64.70	62.63	2.21E-02
				MW115_Fall2	591.4271	59.14		
				MW115_Rise1	733.9243	73.39		
				MW115_Rise2	533.0300	53.30		
MW116	Intermediate "A"	-3.0 to -13.0	35 to 45	MW116_Fall1	9.8248	0.9825	0.8186	2.89E-04
				MW116_Fall2	8.4469	0.8447		
				MW116_Rise1	7.1763	0.7176		
				MW116_Rise2	7.2947	0.7295		
MW111	Intermediate "B"	-33.2 to -43.2	70 to 80	MW111_Fall1	5.0597	0.5060	0.5060	1.78E-04
W-MW01	Intermediate "B"	-24.6 to -34.6	70 to 80	WMW01_Fall1	0.1568	0.0157	0.0212	7.48E-06
				WMW01_Rise1	0.2670	0.0267		
W-MW02	Intermediate "B"	-26.3 to -36.3	70 to 80	WMW02_Fall2	6.2508	0.6251	0.5812	2.05E-04
				WMW02_Rise2	5.3727	0.5373		
MW104	Deep Outwash Aquifer	-76 to -86	119 to 129	MW104_Fall1	459.4851	45.95	45.58	1.61E-02
				MW104_Fall2	421.2284	42.12		
				MW104_Rise1	479.0519	47.91		
				MW104_Rise2	463.5530	46.36		
MW105	Deep Outwash Aquifer	-85.0 to -95.0	130 to 140	MW105_Fall3	41.2014	4.120	4.344	1.53E-03
				MW105_Rise3	45.6726	4.567		
MW113	Deep Outwash Aquifer	-36.8 to -46.8	70 to 80	MW113_Fall1	505.1845	50.52	54.14	1.91E-02
				MW113_Fall2	220.6436	22.06		
				MW113_Rise1	748.5067	74.85		
				MW113_Rise2	691.3775	69.14		

NOTES:

Survey of elevations in feet above mean sea level is based upon the North American Vertical Datum of 1988.

Hydraulic conductivity calculated by using the well screen length (10 feet) for aquifer thickness.

Analysis used Cooper, H.H., J.D. Bredehoeft, and I.S. Papadopulos, 1967, "Response of a finite-diameter well to an instantaneous charge of water," *Water Resources Research* , volume 3, number 1, pages 263–269.

bgs = below ground surface

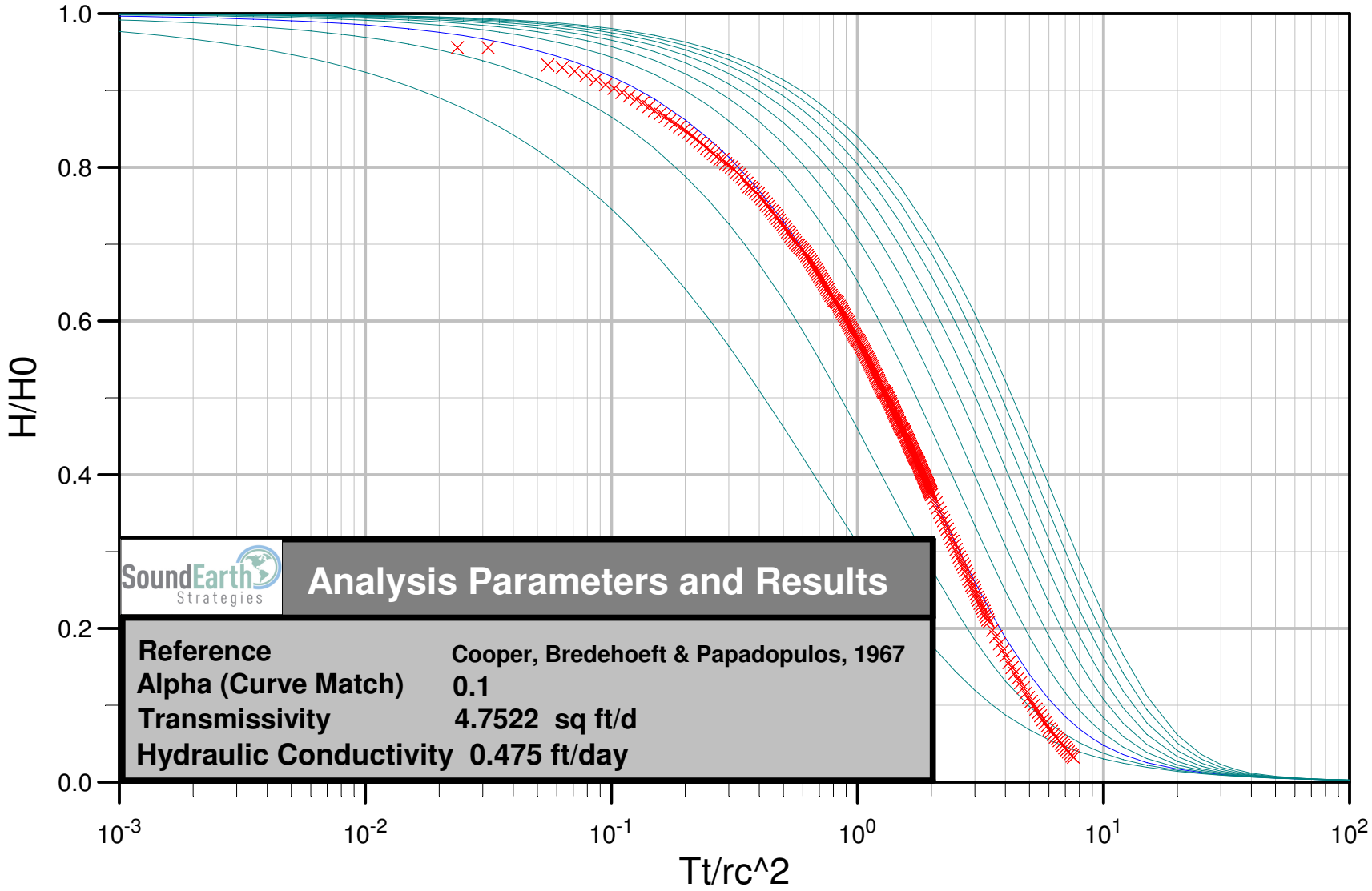
cm/sec = centimeters per second

ft = feet

ft^2/day = square feet per day

hydraulic conductivity = transmissivity/aquifer thickness

MW107 Fall1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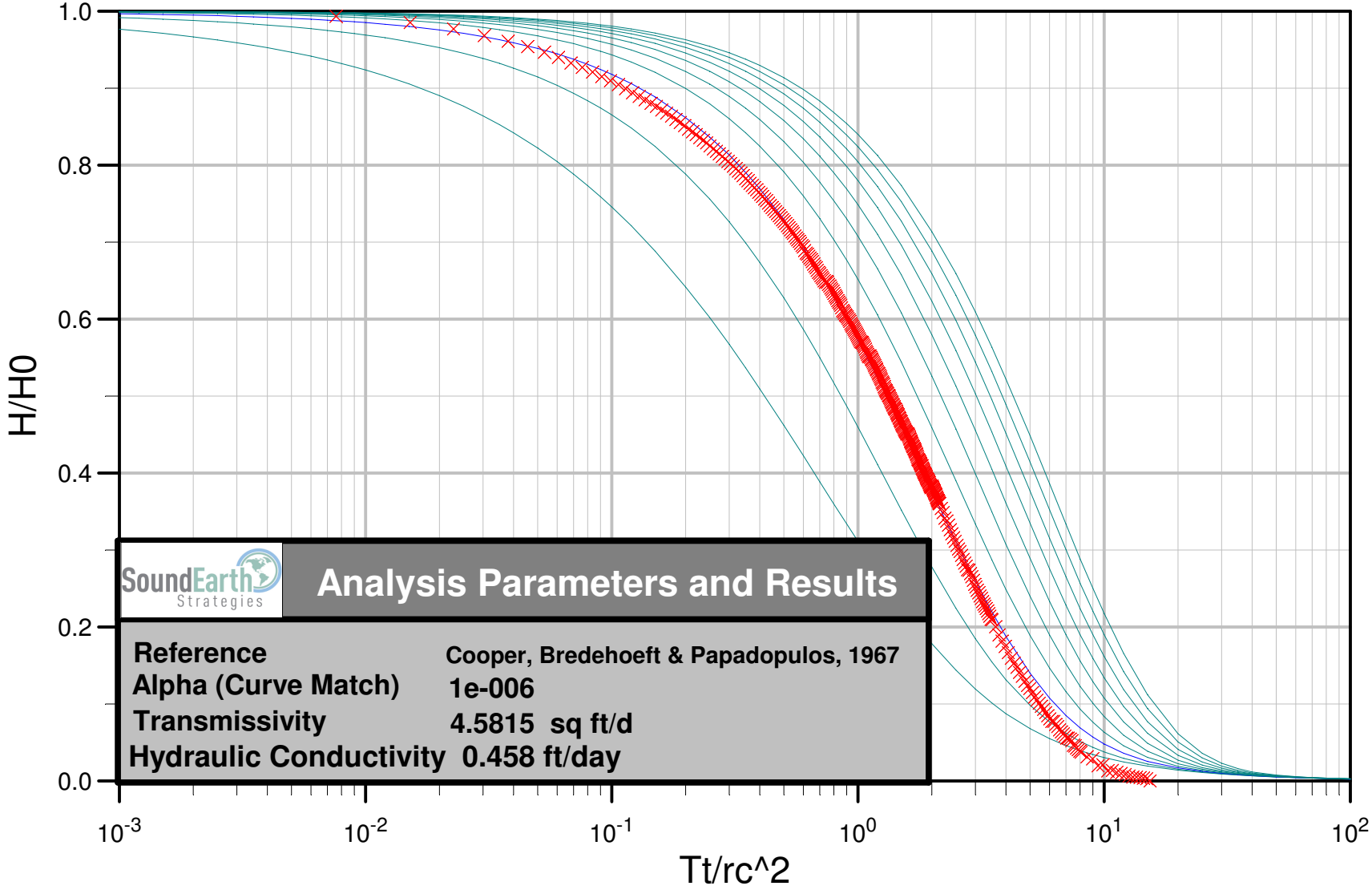
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.1
Transmissivity 4.7522 sq ft/d
Hydraulic Conductivity 0.475 ft/day

MW107 Rise1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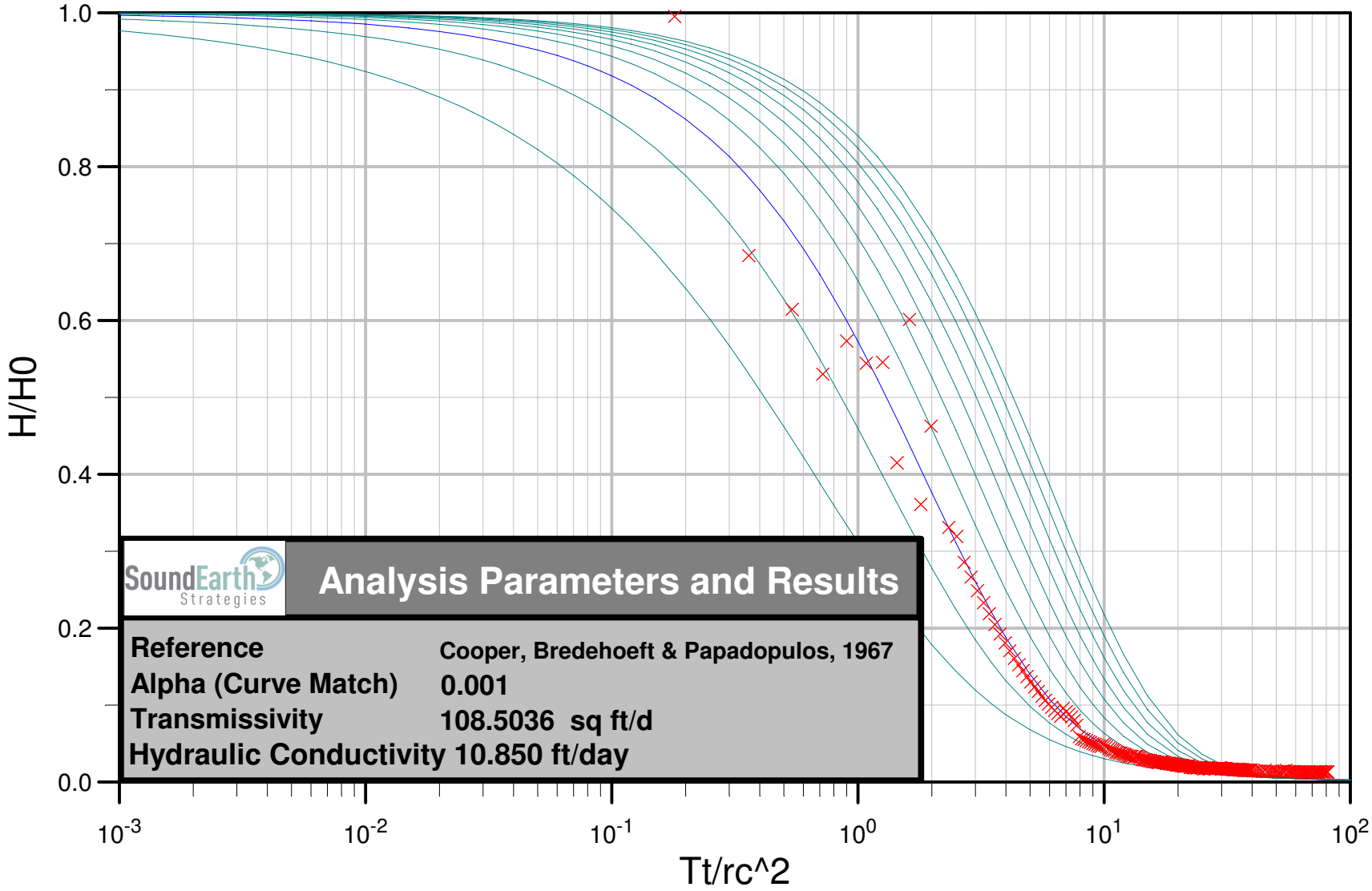
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-006
Transmissivity 4.5815 sq ft/d
Hydraulic Conductivity 0.458 ft/day

MW108 Fall1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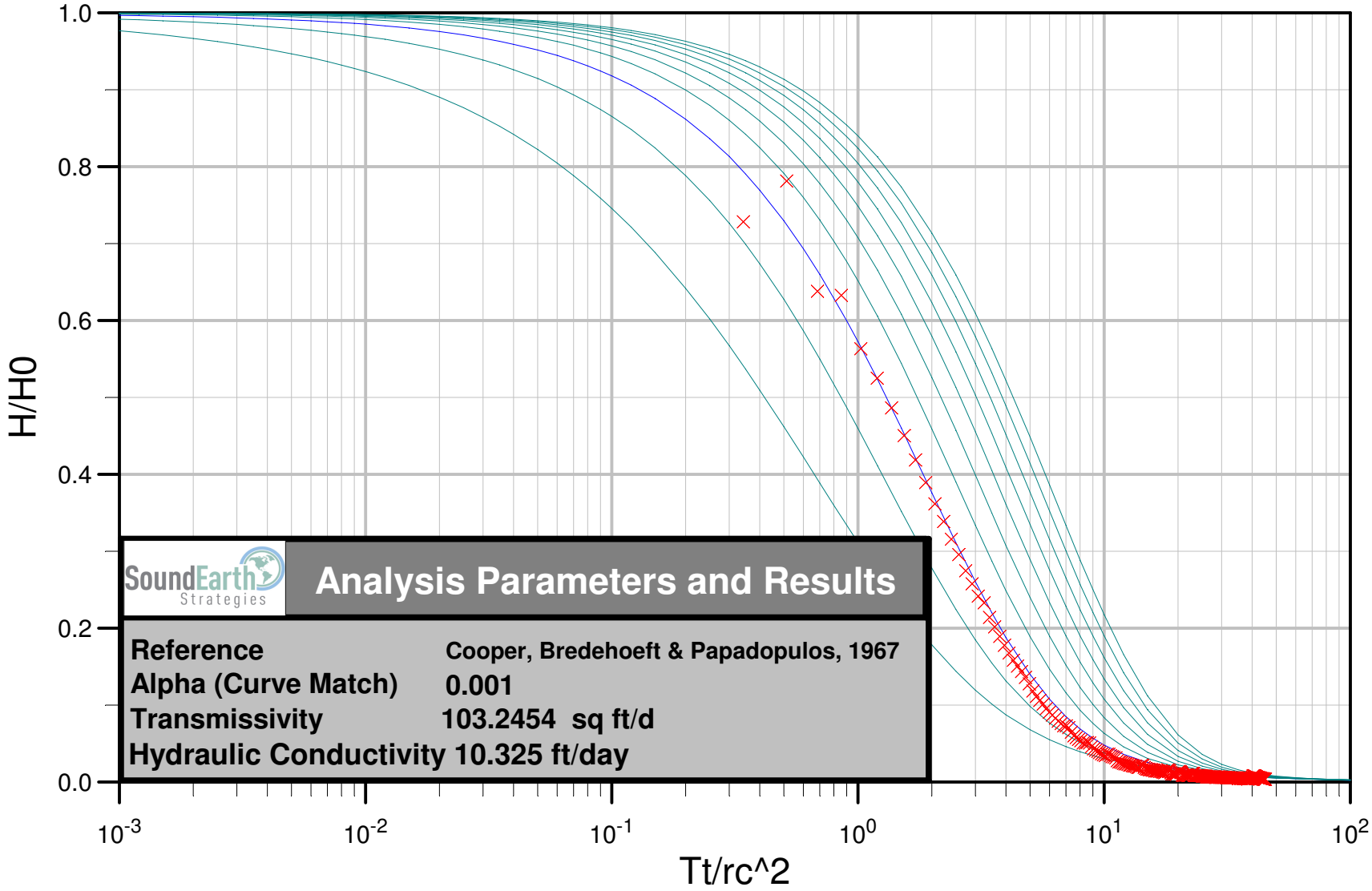
101
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 108.5036 sq ft/d
Hydraulic Conductivity 10.850 ft/day

MW108 Fall2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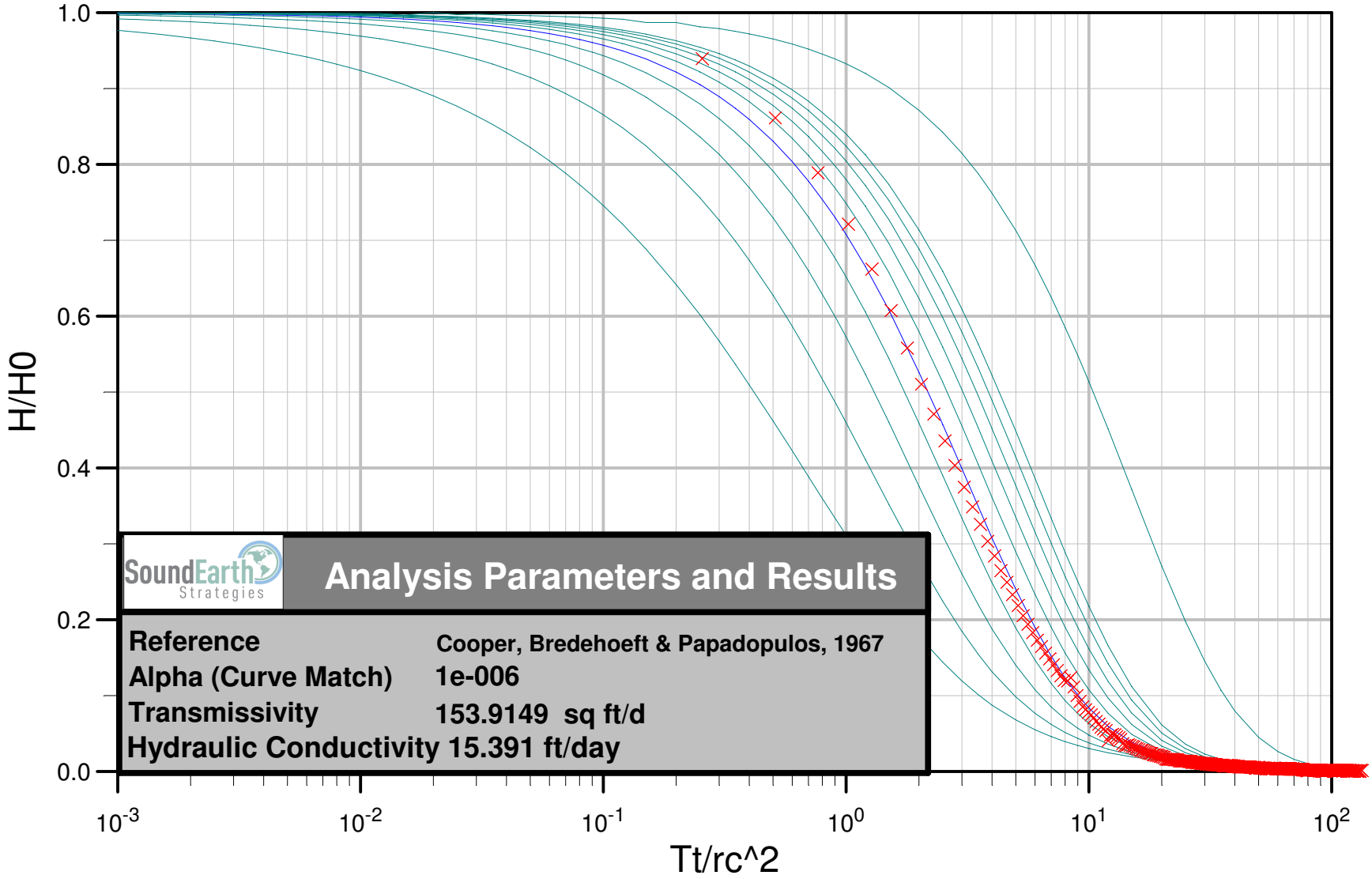
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 103.2454 sq ft/d
Hydraulic Conductivity 10.325 ft/day

MW108 Rise1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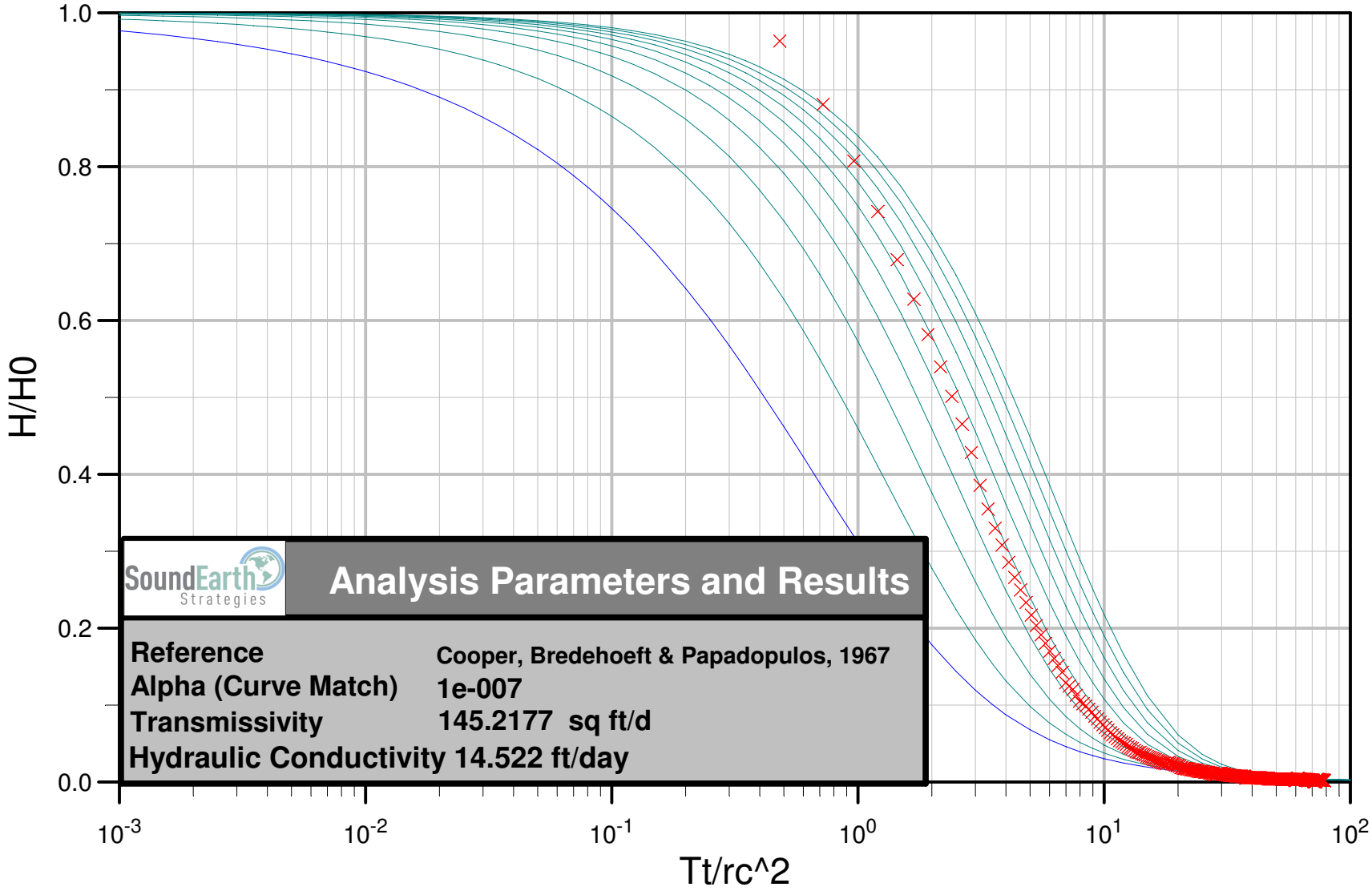
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-006
Transmissivity 153.9149 sq ft/d
Hydraulic Conductivity 15.391 ft/day

MW108 Rise2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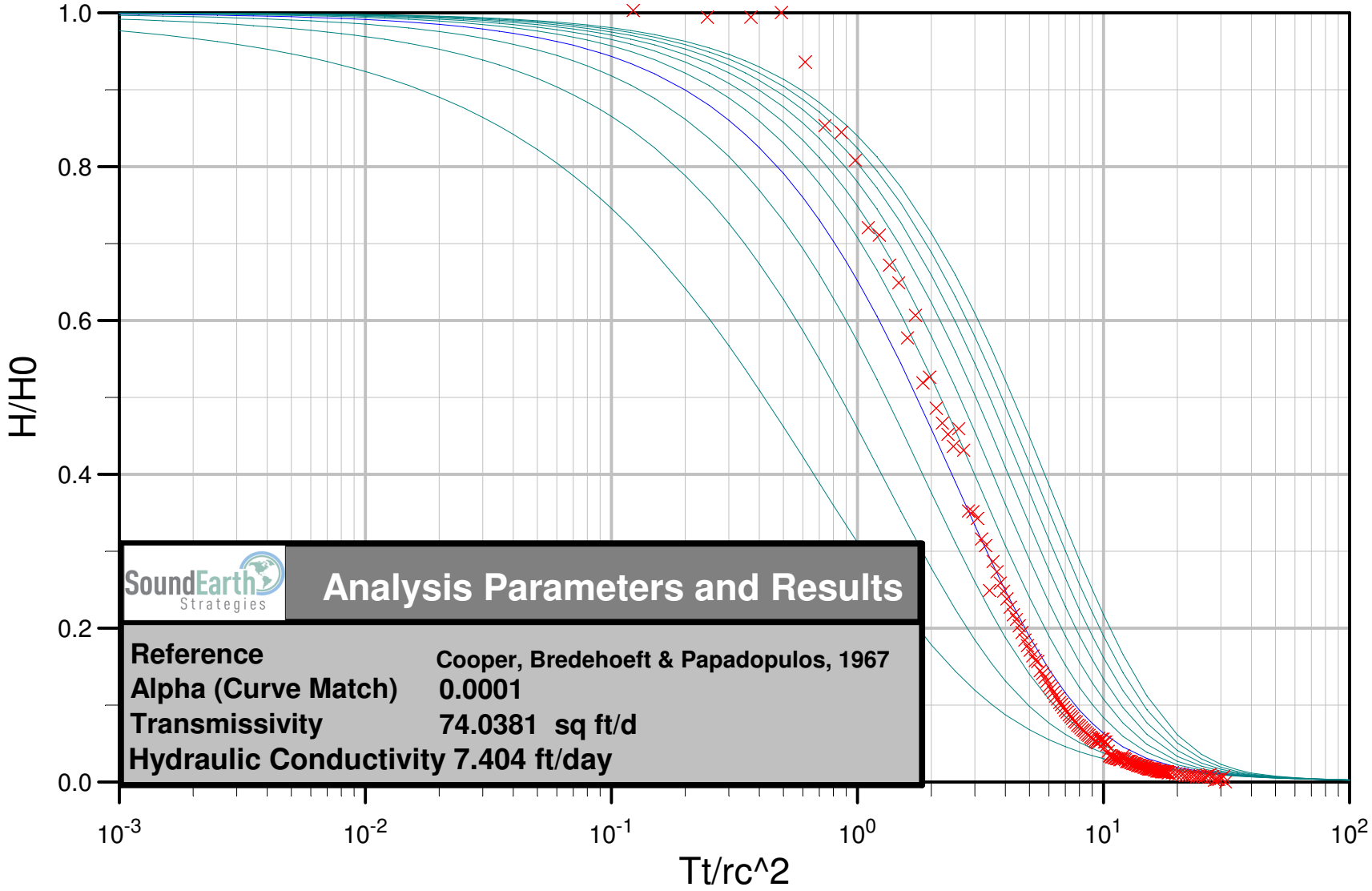
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-007
Transmissivity 145.2177 sq ft/d
Hydraulic Conductivity 14.522 ft/day

MW109 Fall2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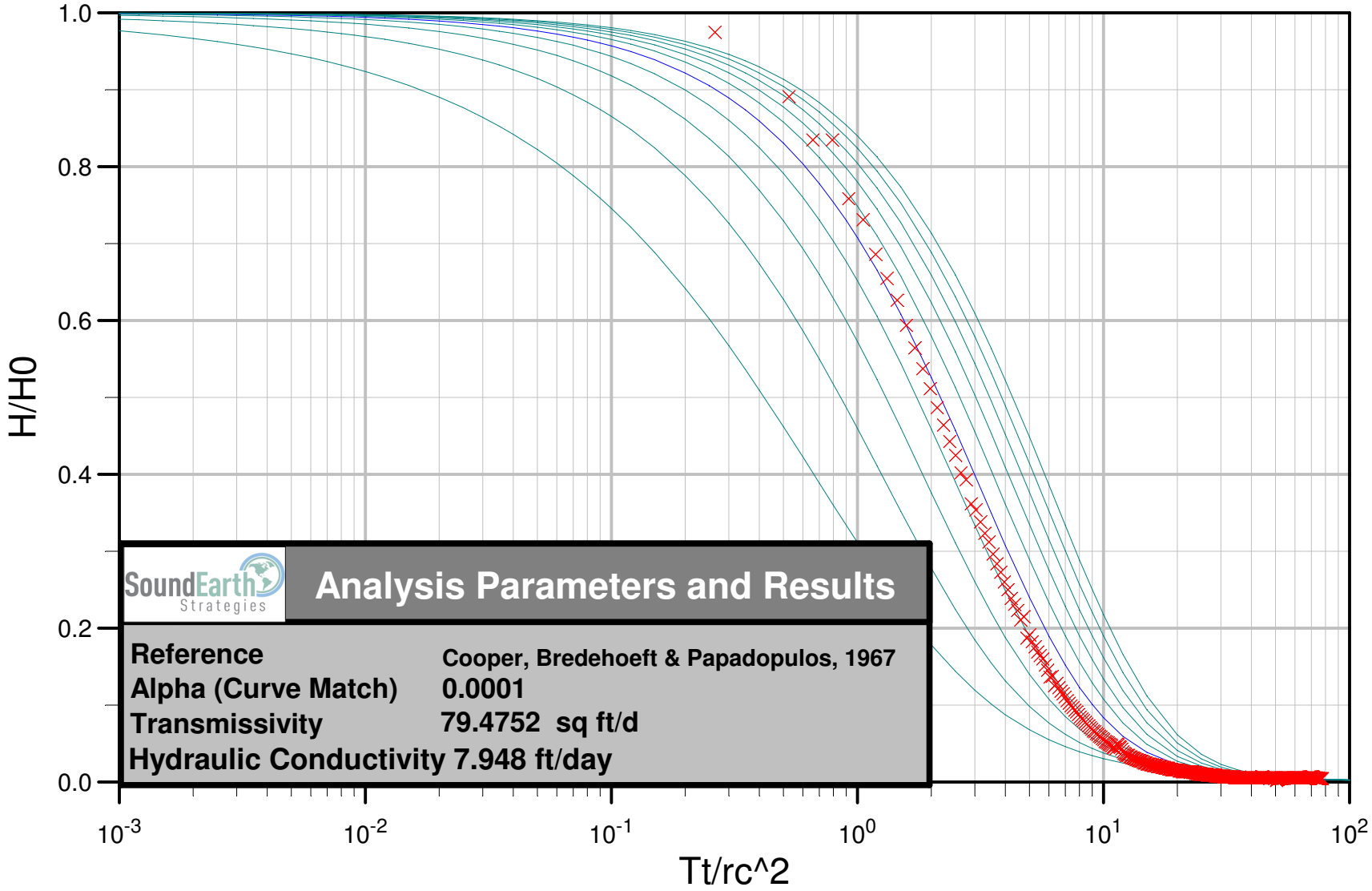
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.0001
Transmissivity 74.0381 sq ft/d
Hydraulic Conductivity 7.404 ft/day

MW109 Fall3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101
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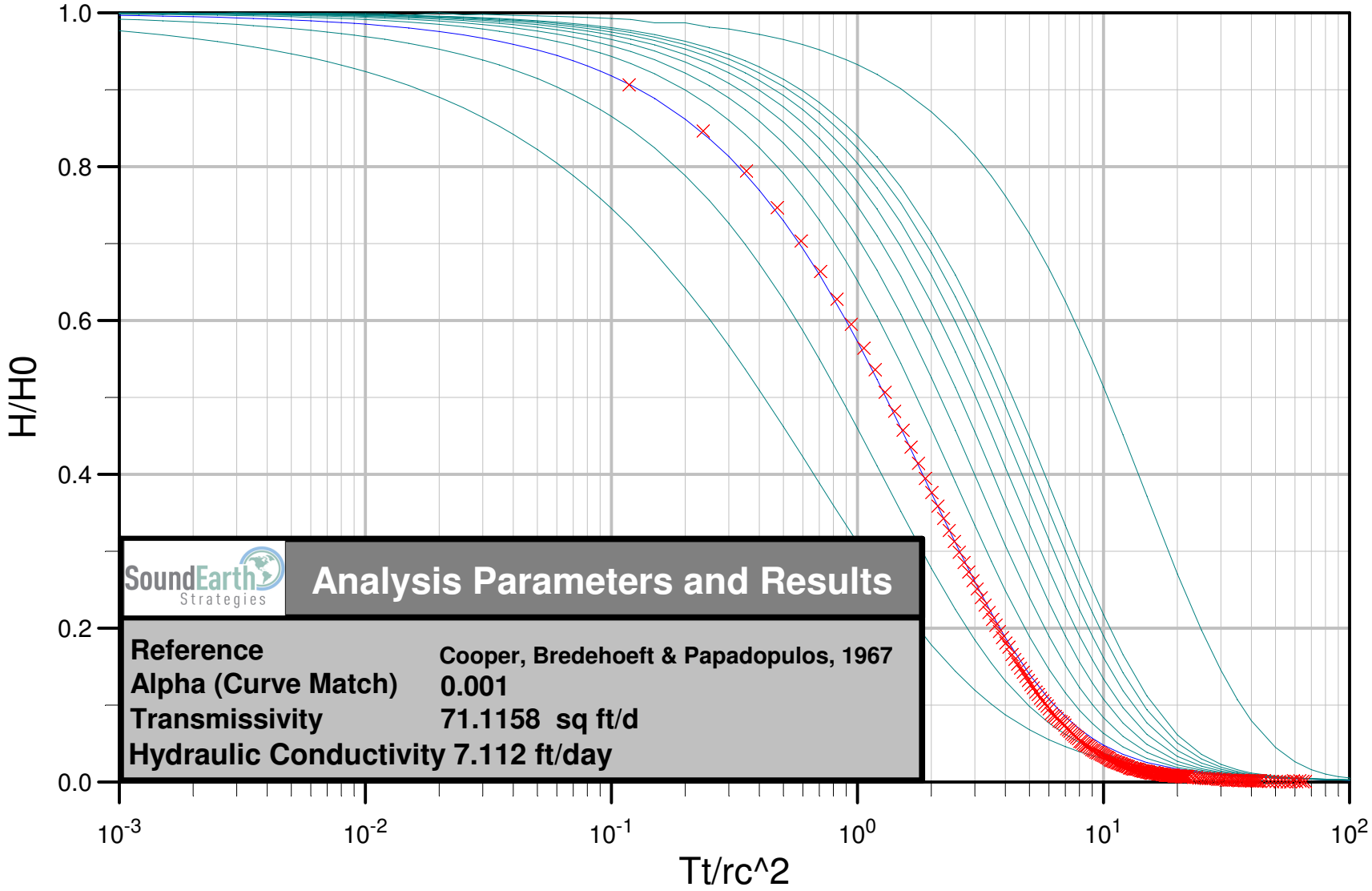
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
0.0001
Transmissivity
79.4752 sq ft/d
Hydraulic Conductivity 7.948 ft/day

MW109 Rise2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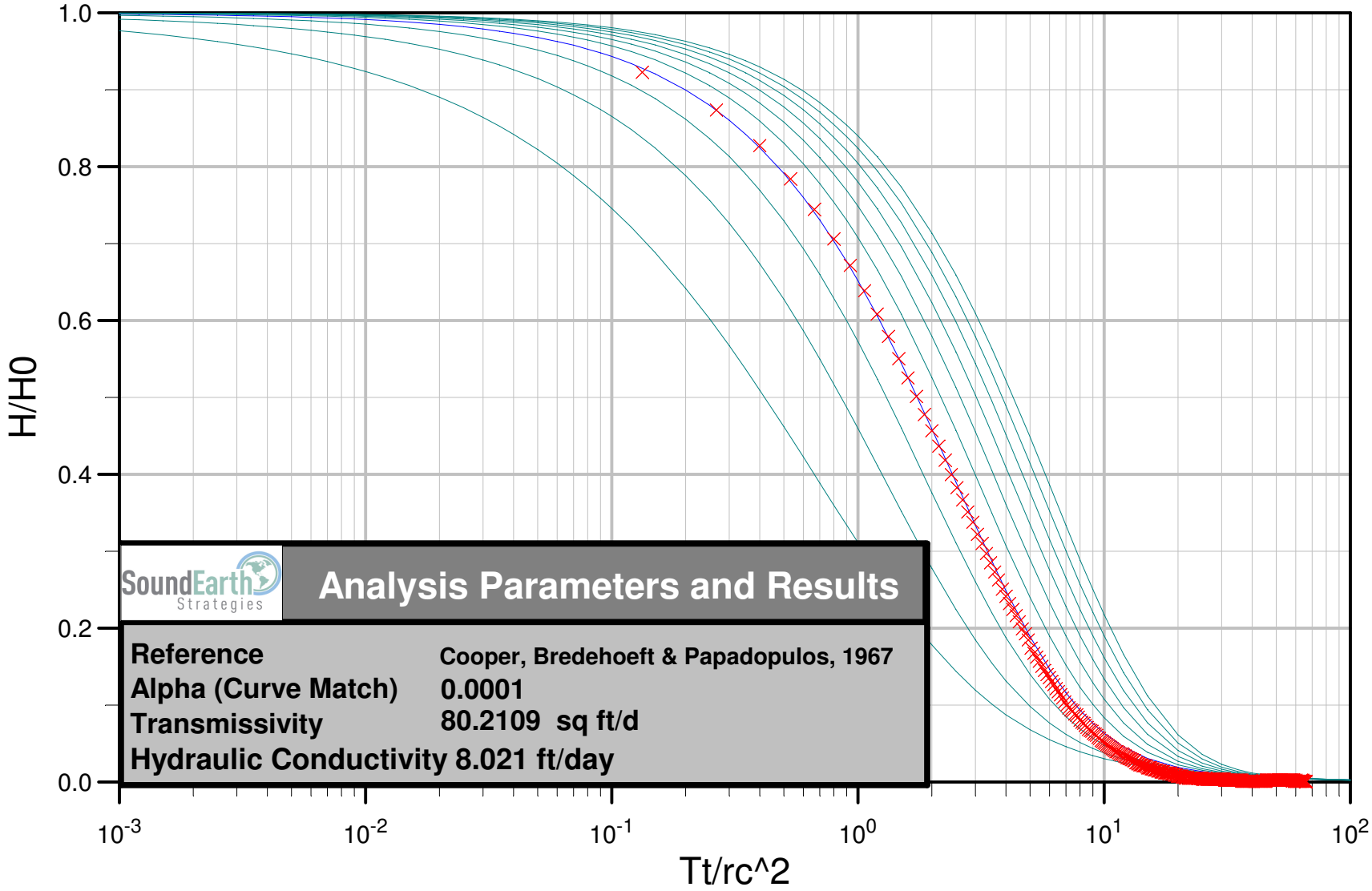
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 71.1158 sq ft/d
Hydraulic Conductivity 7.112 ft/day

MW109 Rise3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H/H0
10^{-3}
10^{-2}
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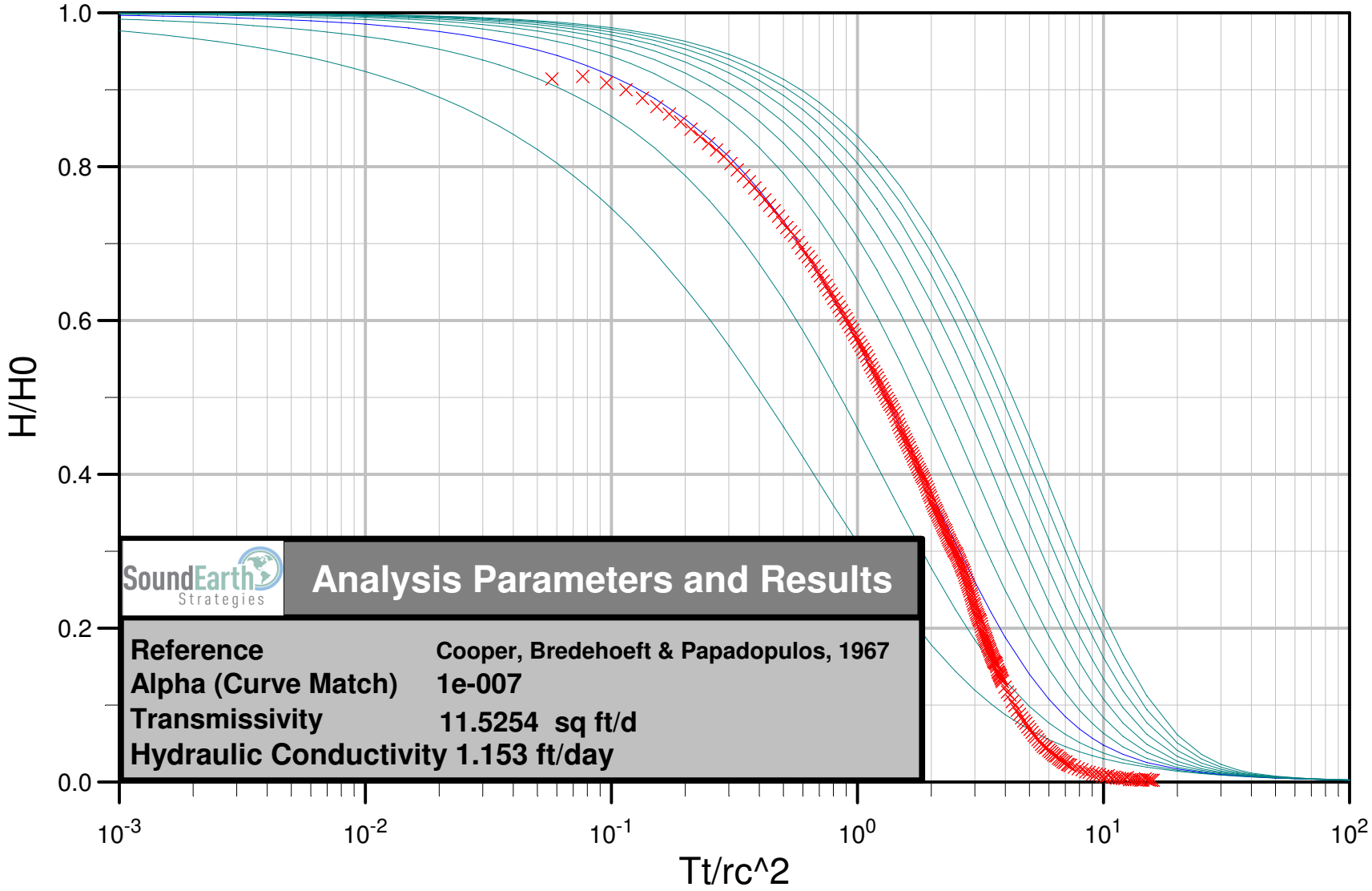
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.0001
Transmissivity 80.2109 sq ft/d
Hydraulic Conductivity 8.021 ft/day

MW110 Fall1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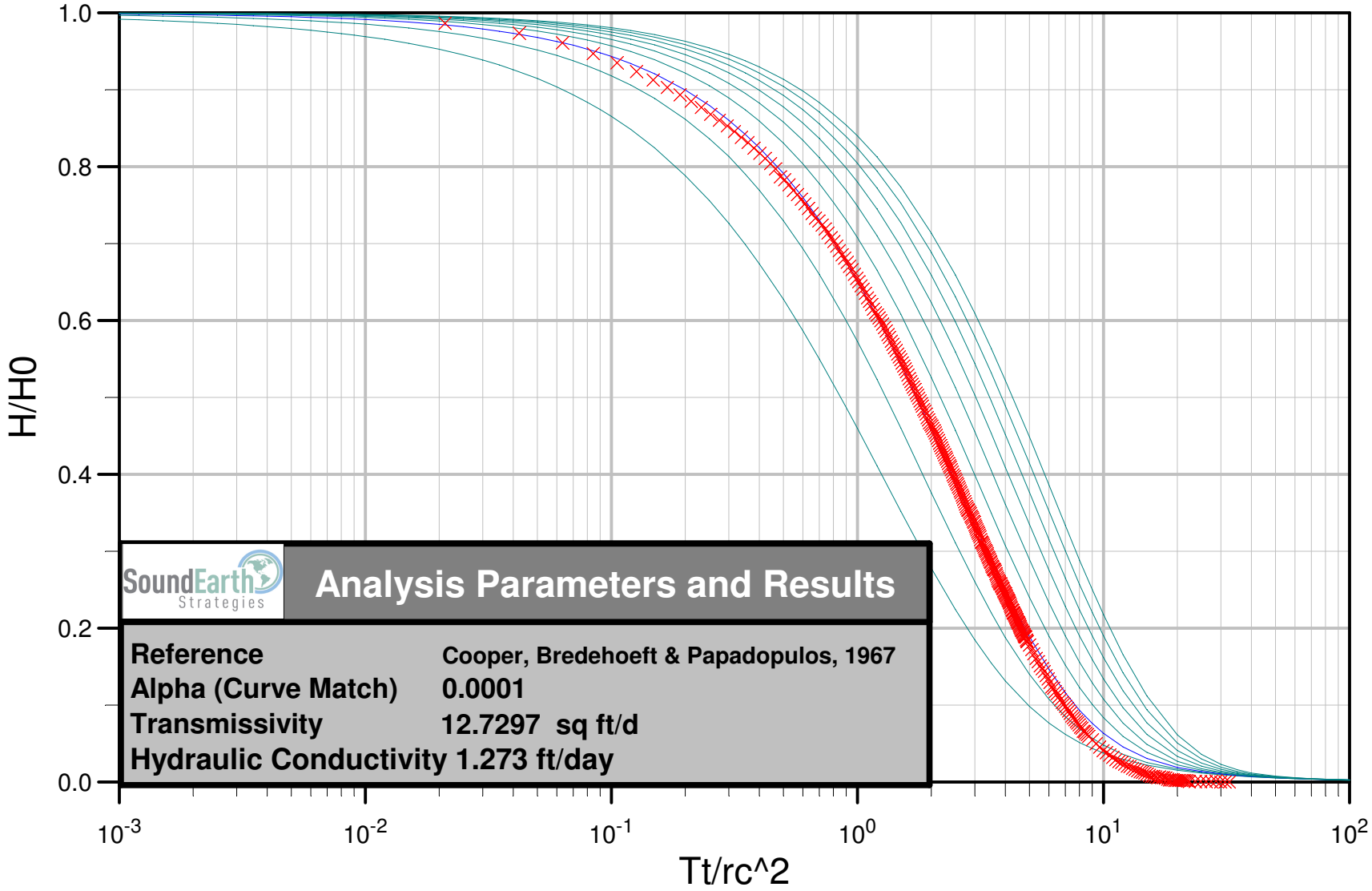
0.4
0.2
0.0
H/H0
10-3
10-2
10-1
100
101
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-007
Transmissivity 11.5254 sq ft/d
Hydraulic Conductivity 1.153 ft/day

MW110 Rise1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10^{-2}
10^{-1}
10^{0}
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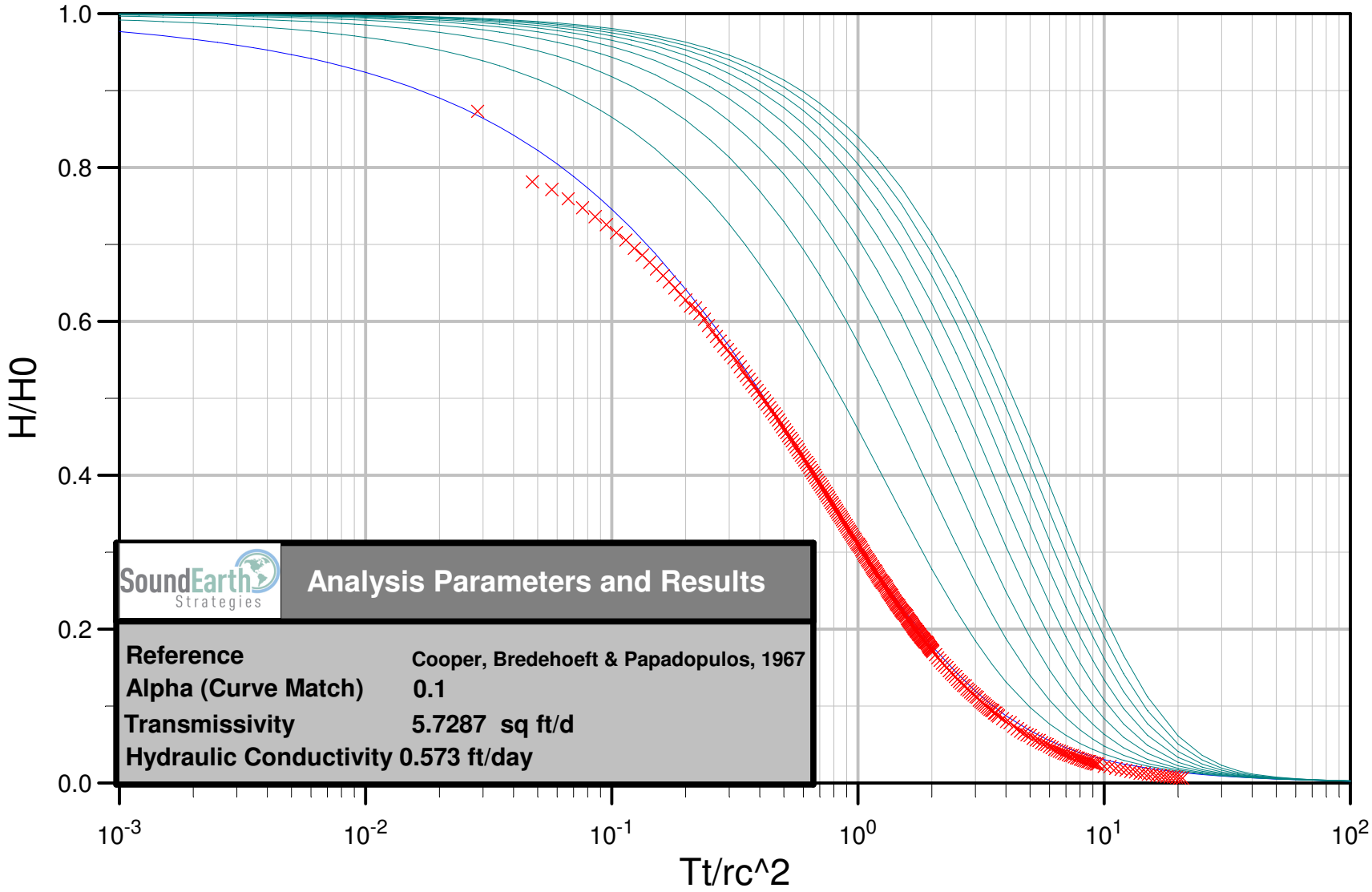
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.0001
Transmissivity 12.7297 sq ft/d
Hydraulic Conductivity 1.273 ft/day

MW114 Fall1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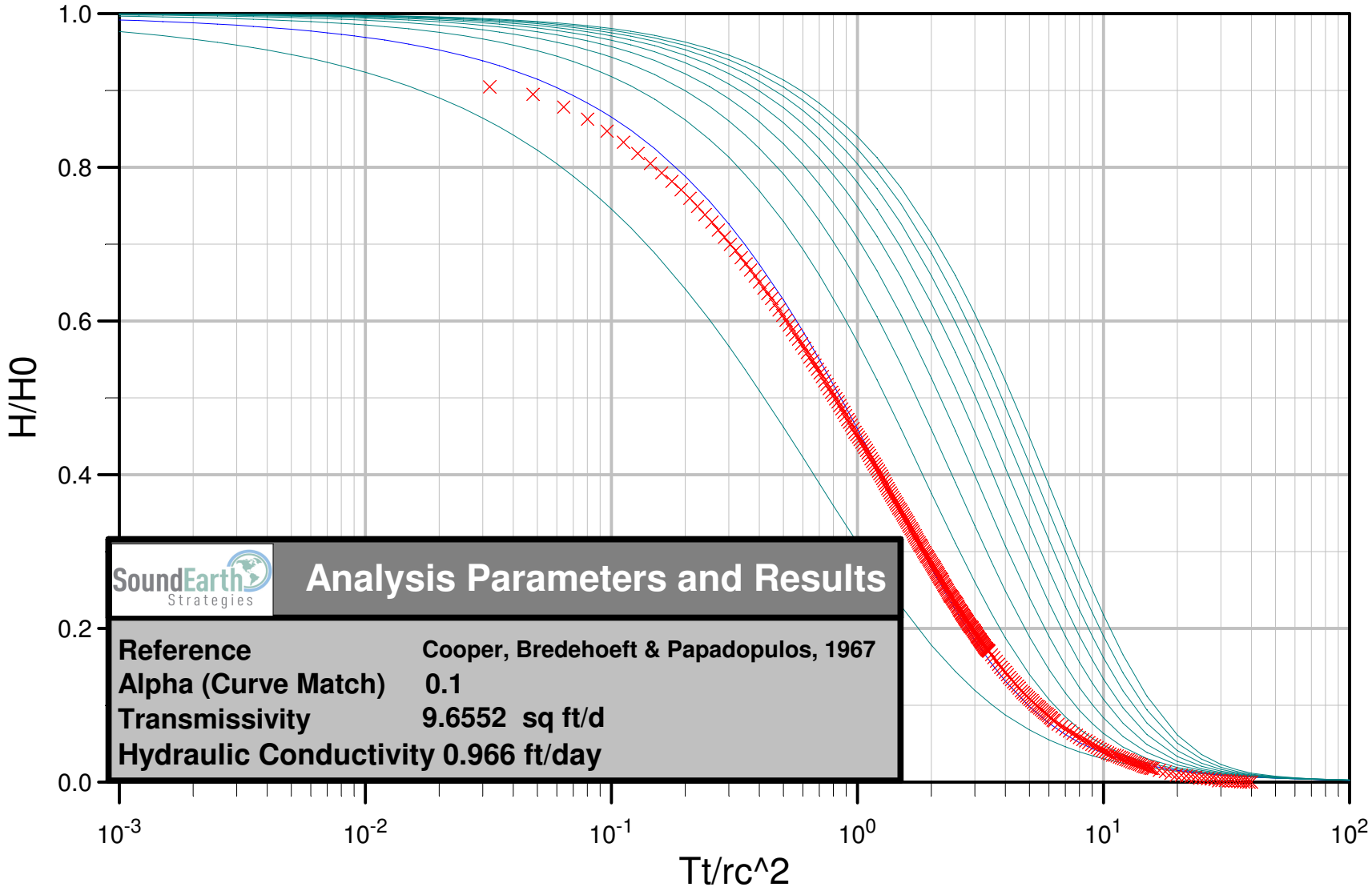
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
0.1
Transmissivity
5.7287 sq ft/d
Hydraulic Conductivity 0.573 ft/day

MW114 Rise1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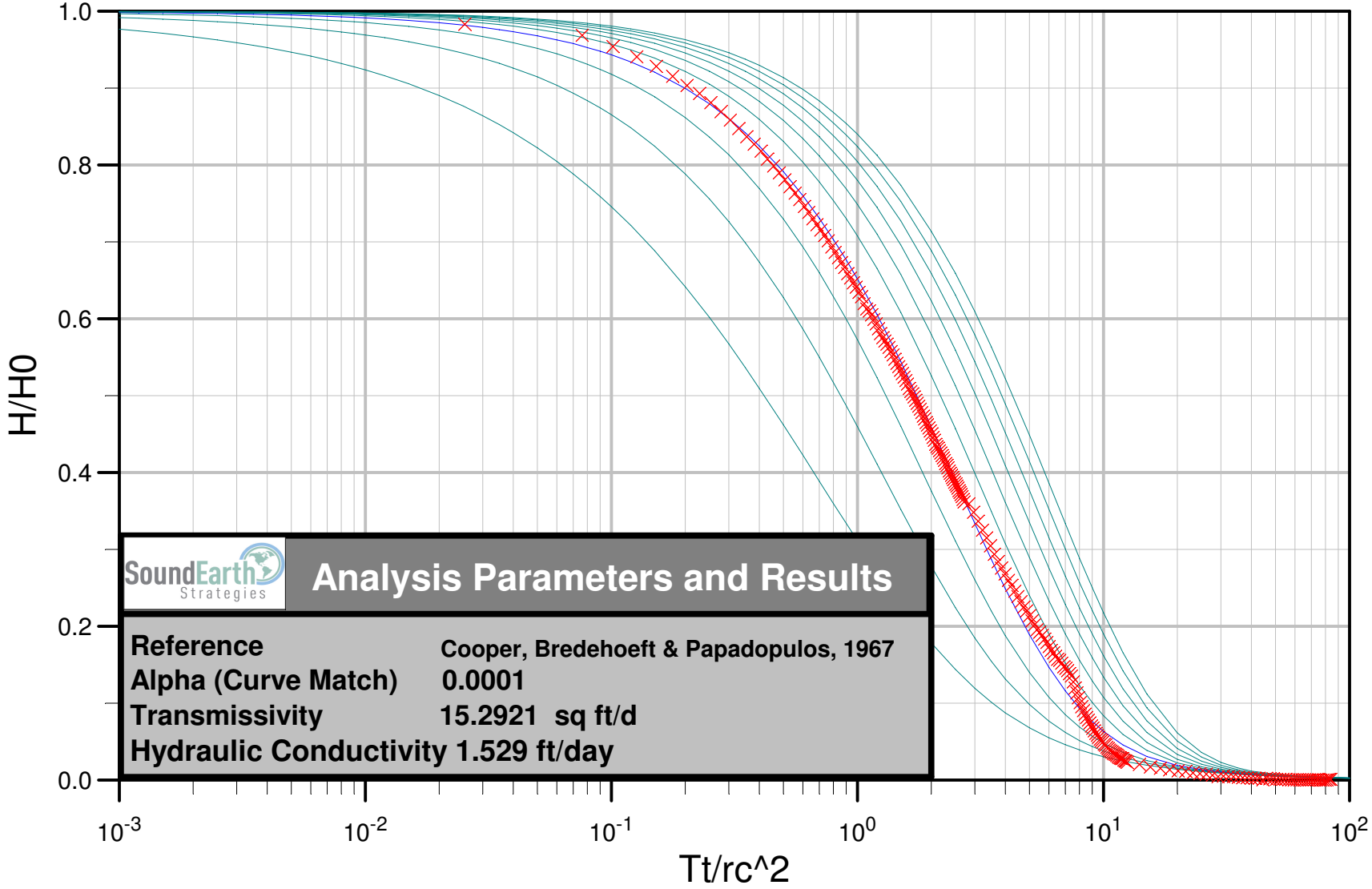
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.1
Transmissivity 9.6552 sq ft/d
Hydraulic Conductivity 0.966 ft/day

MW114 Rise2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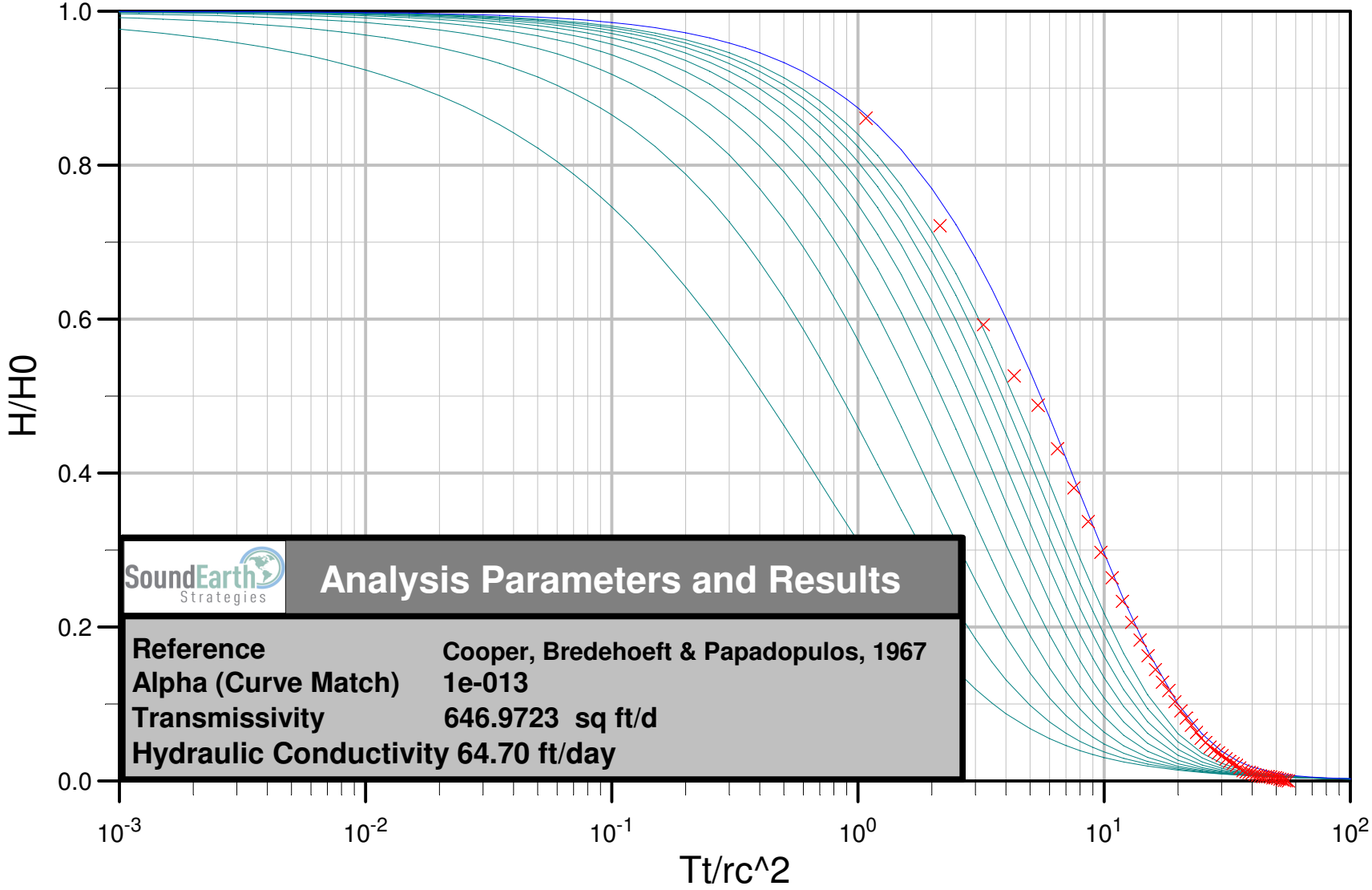
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.0001
Transmissivity 15.2921 sq ft/d
Hydraulic Conductivity 1.529 ft/day

MW115 Fall1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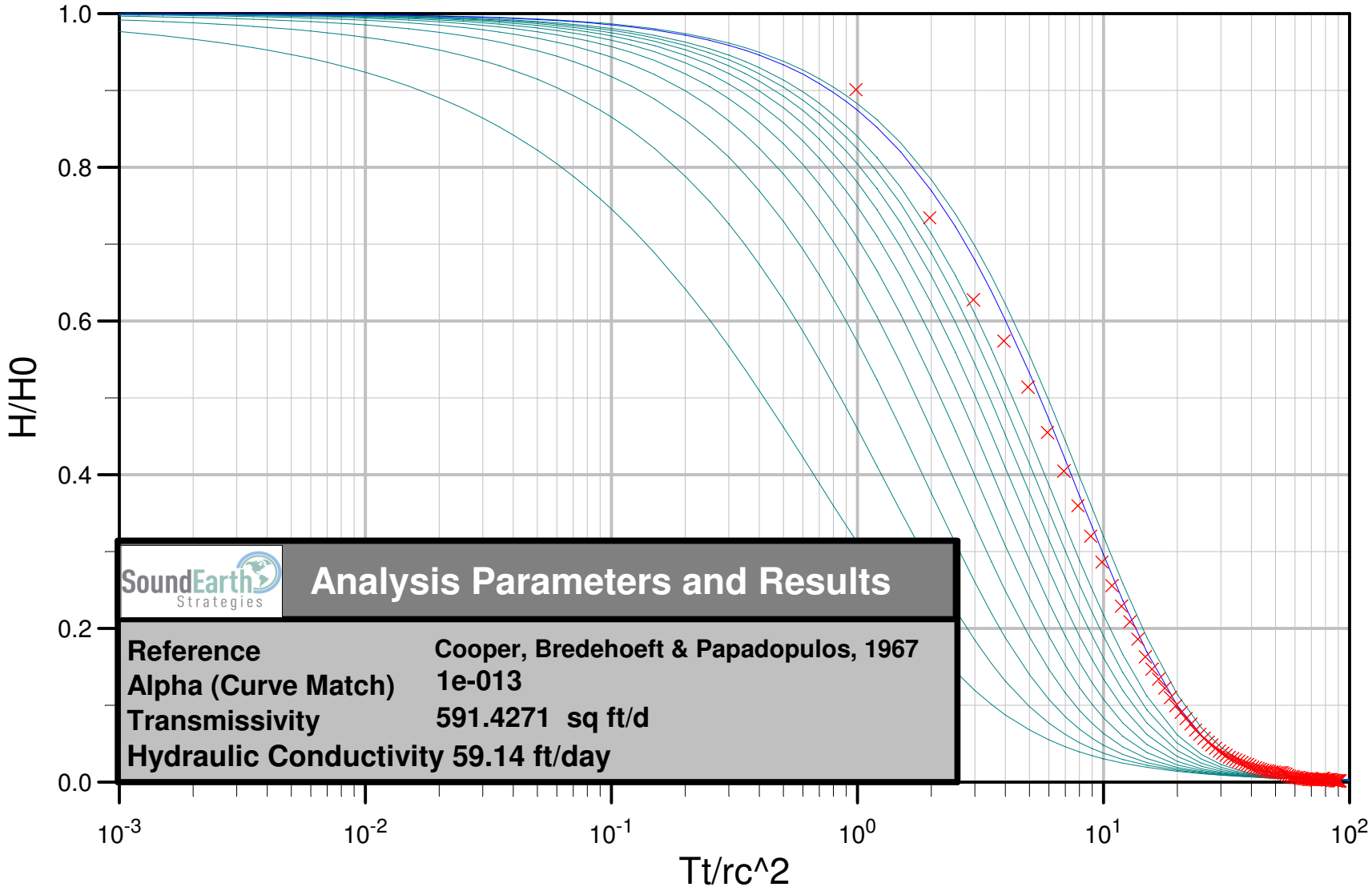
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-013
Transmissivity 646.9723 sq ft/d
Hydraulic Conductivity 64.70 ft/day

MW115 Fall2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101
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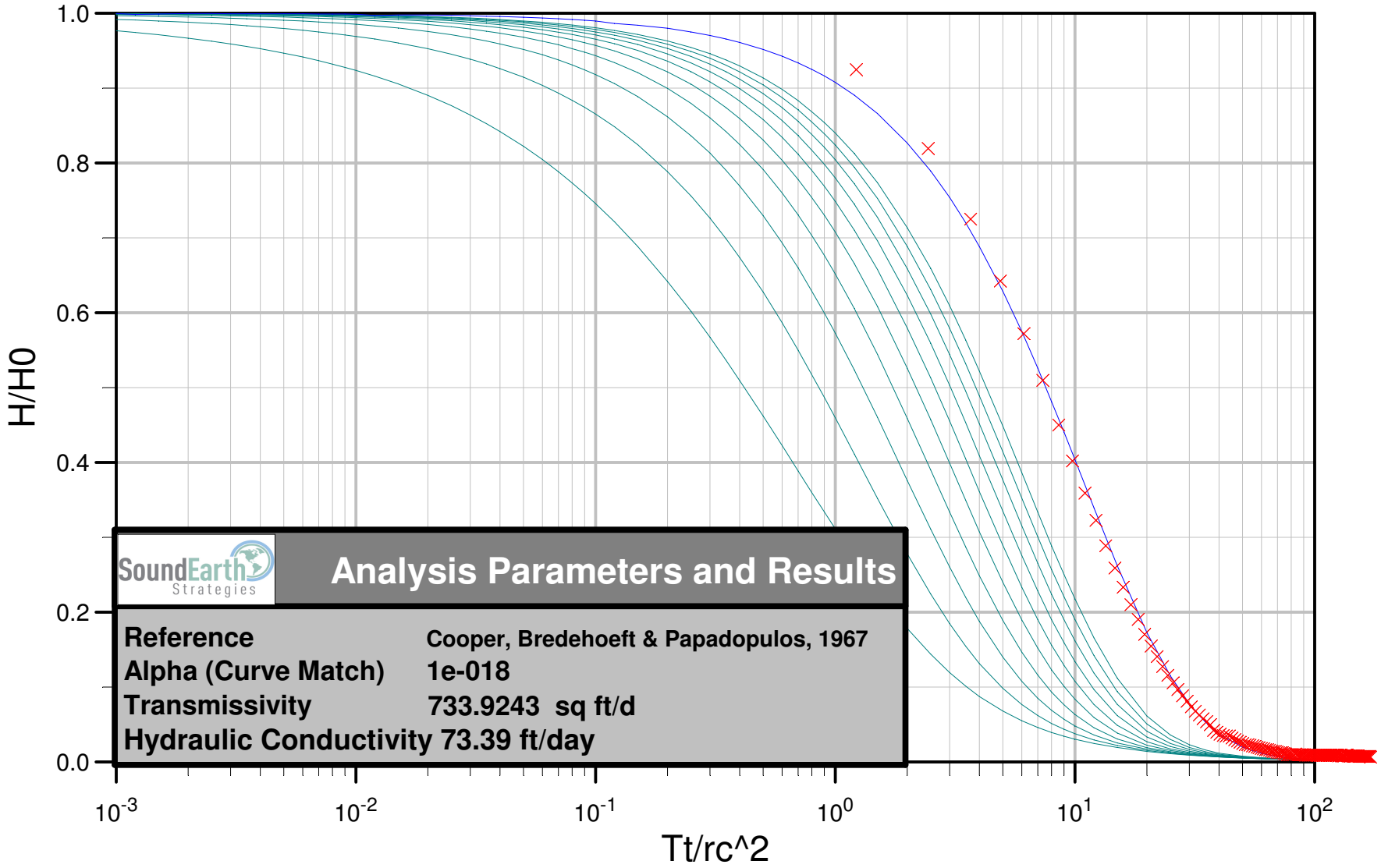
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-013
Transmissivity 591.4271 sq ft/d
Hydraulic Conductivity 59.14 ft/day

MW115 Rise1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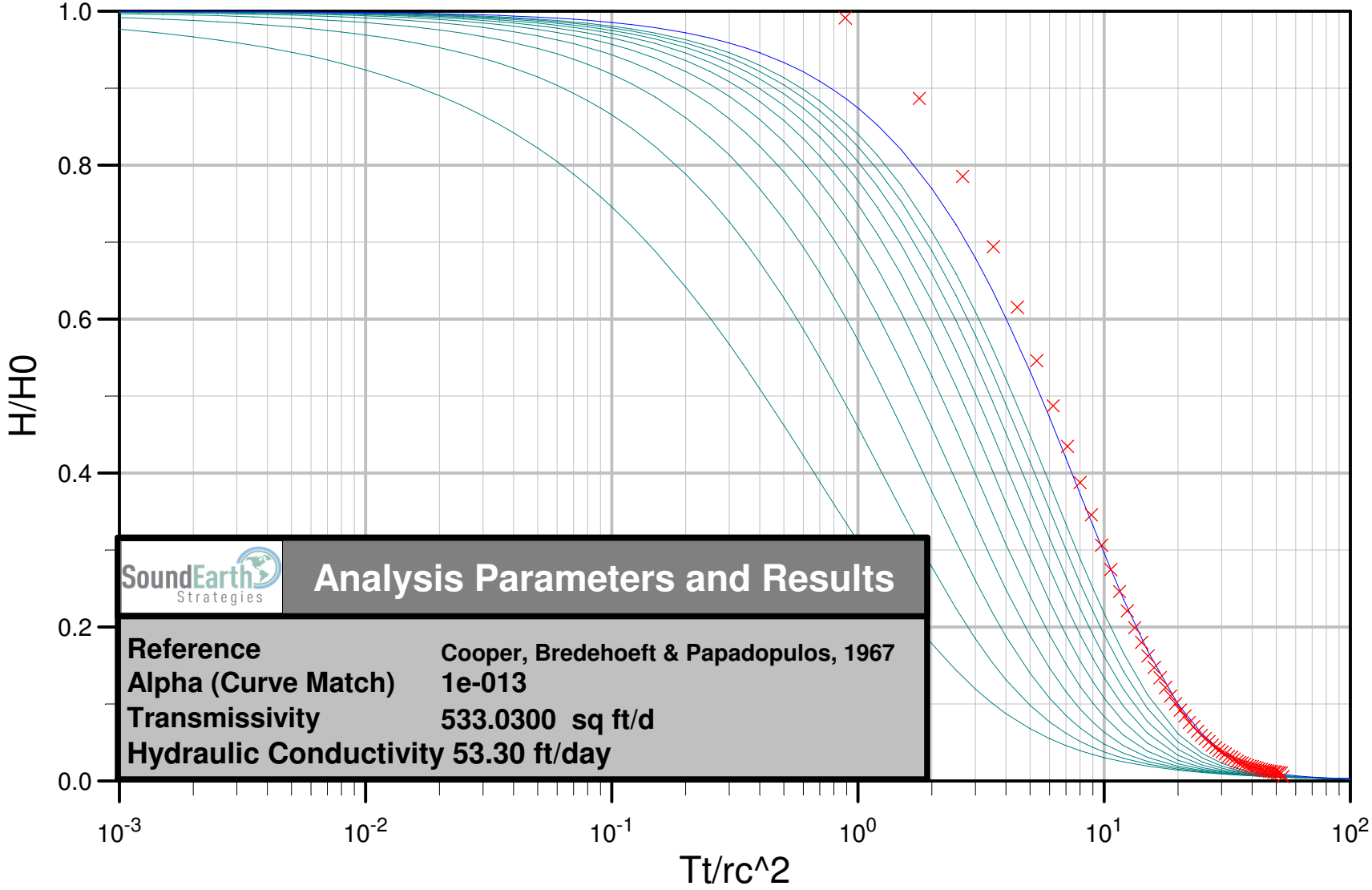
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-018
Transmissivity 733.9243 sq ft/d
Hydraulic Conductivity 73.39 ft/day

MW115 Rise2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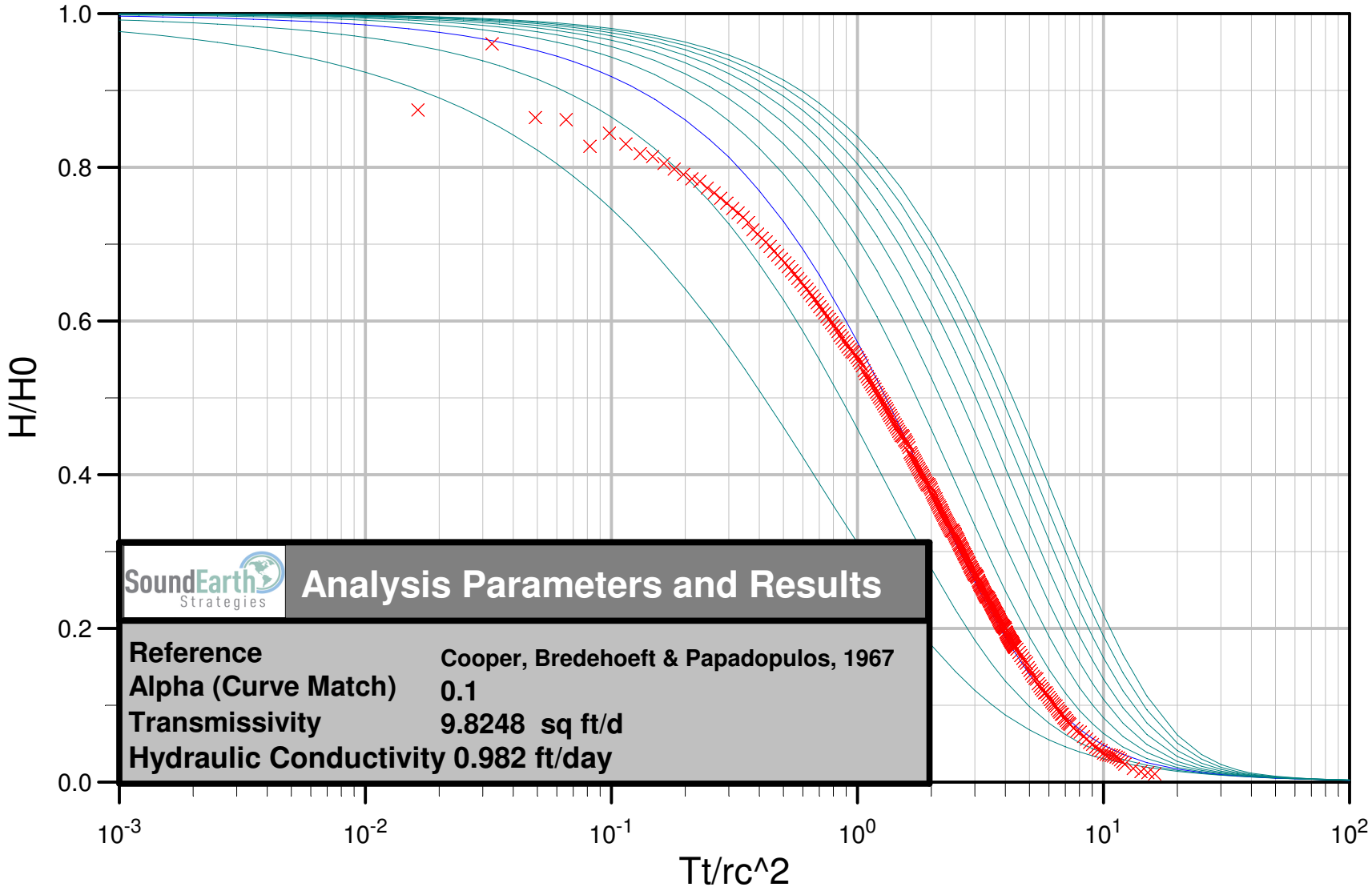
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-013
Transmissivity 533.0300 sq ft/d
Hydraulic Conductivity 53.30 ft/day

MW116 Fall1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10-2
10-1
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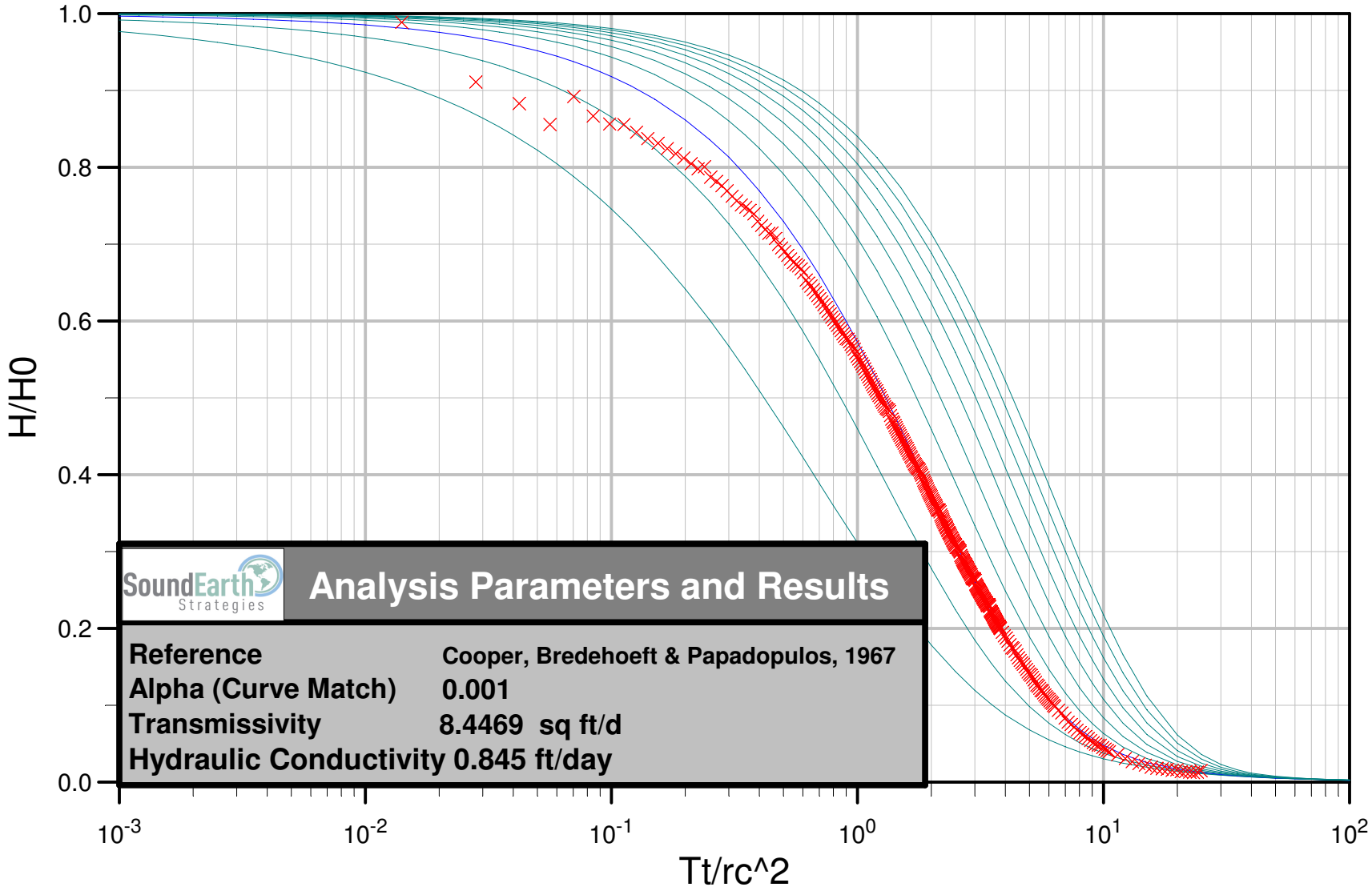
101
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
0.1
Transmissivity
9.8248 sq ft/d
Hydraulic Conductivity 0.982 ft/day

MW116 Fall2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10-1
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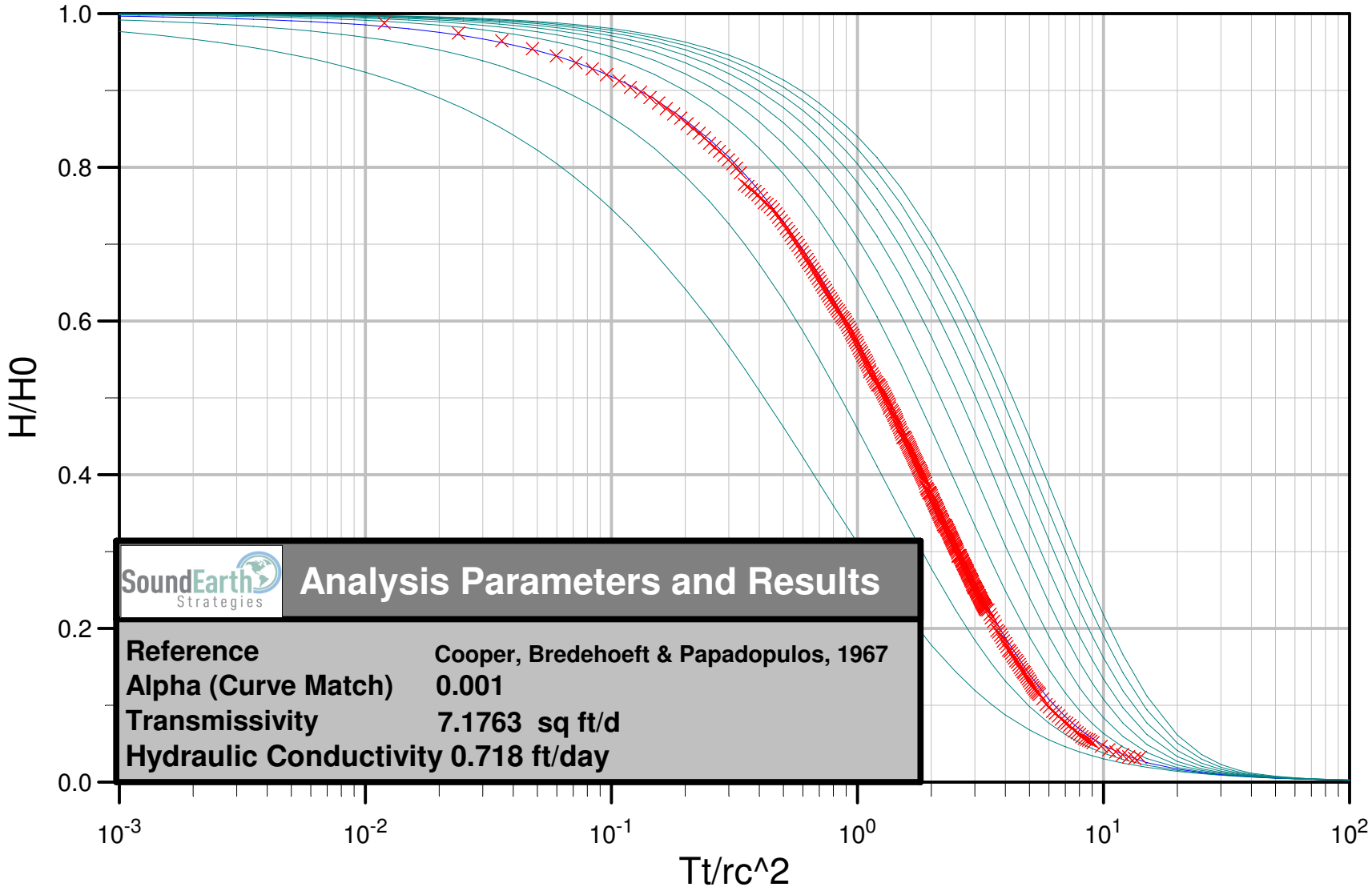
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 8.4469 sq ft/d
Hydraulic Conductivity 0.845 ft/day

MW116 Rise1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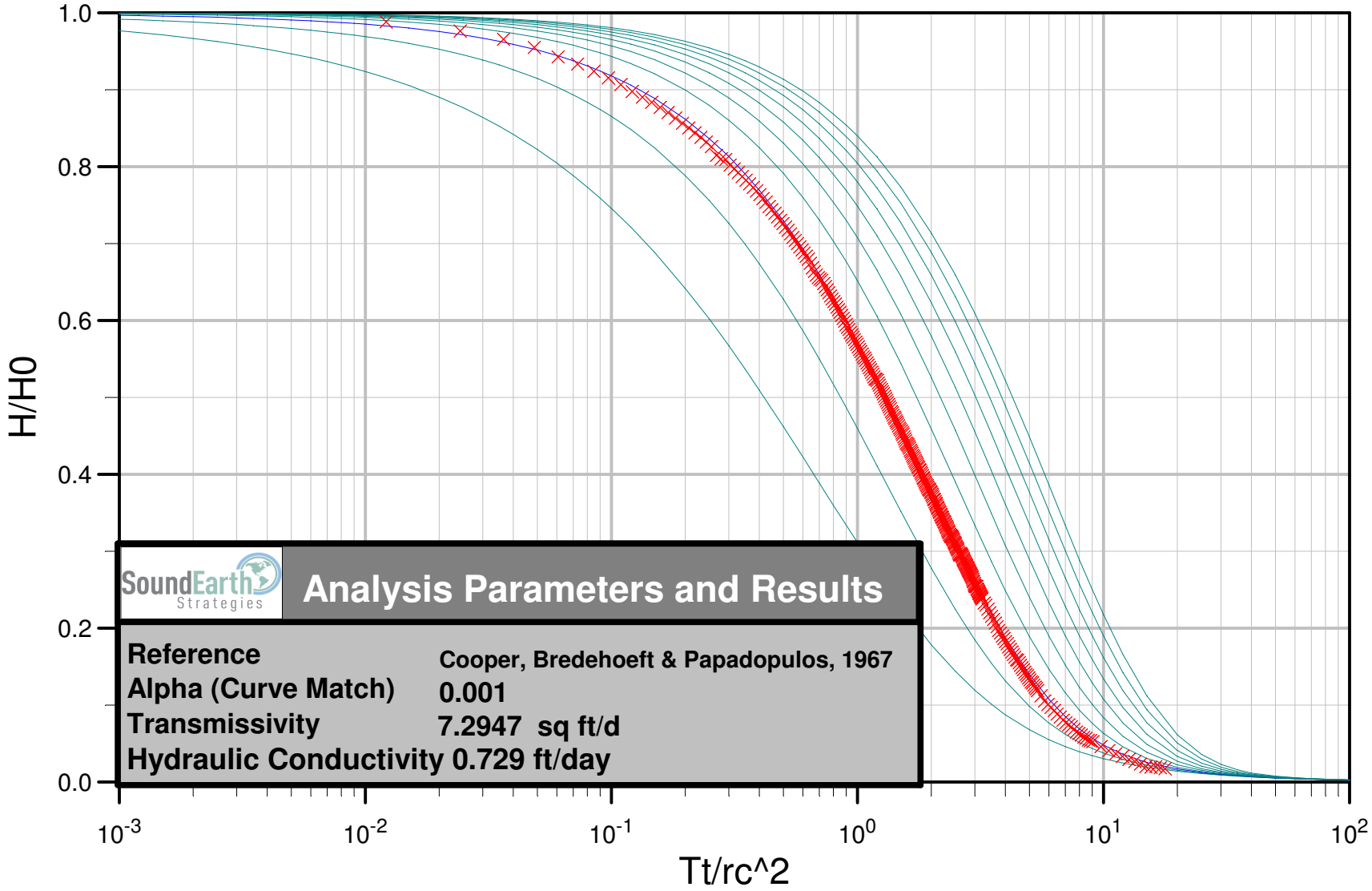
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 7.1763 sq ft/d
Hydraulic Conductivity 0.718 ft/day

MW116 Rise2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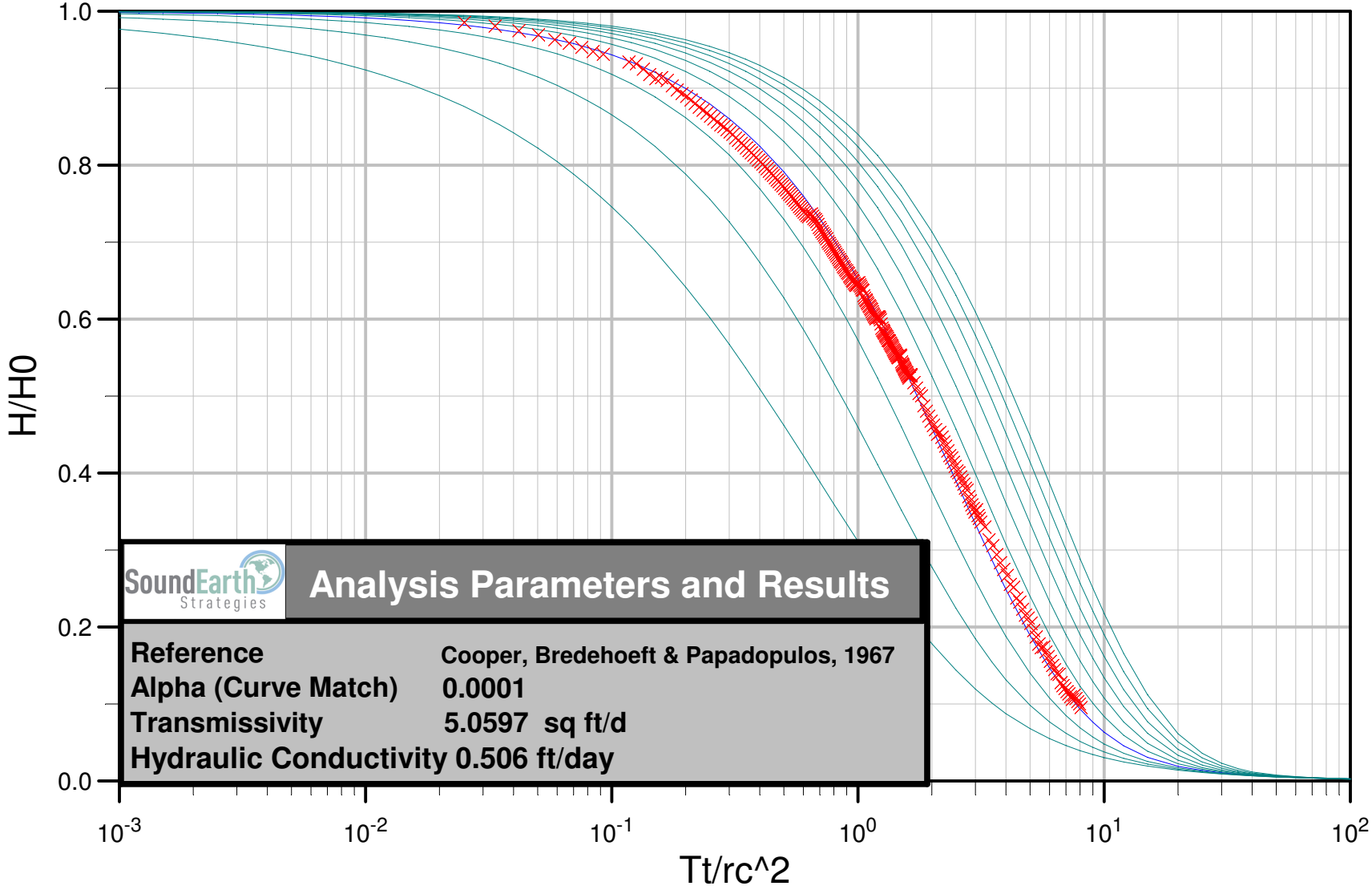
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.001
Transmissivity 7.2947 sq ft/d
Hydraulic Conductivity 0.729 ft/day

MW111 Fall1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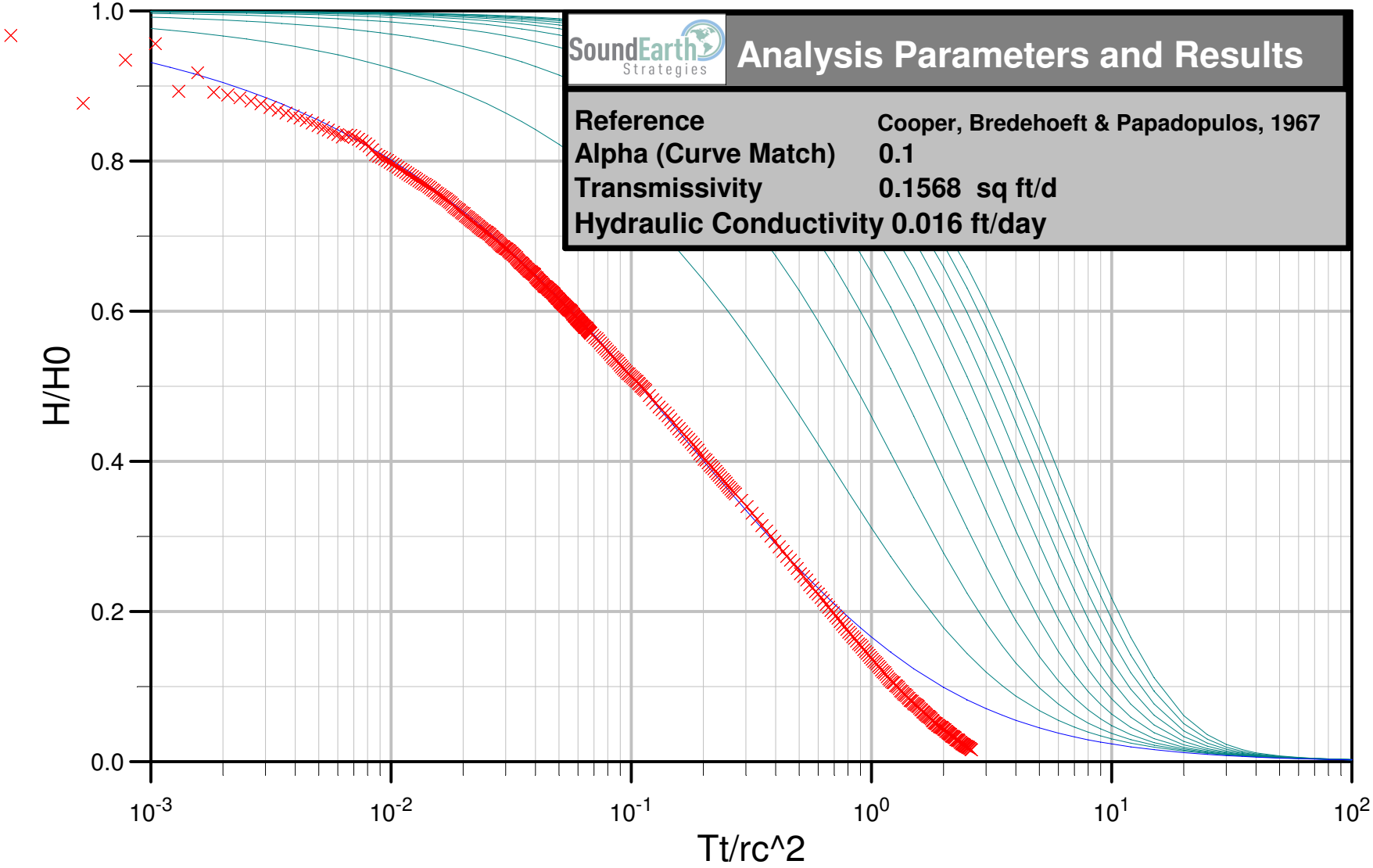
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.0001
Transmissivity 5.0597 sq ft/d
Hydraulic Conductivity 0.506 ft/day

WMW01 Fall1


SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.1
Transmissivity 0.1568 sq ft/d
Hydraulic Conductivity 0.016 ft/day
H/H0
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0.0
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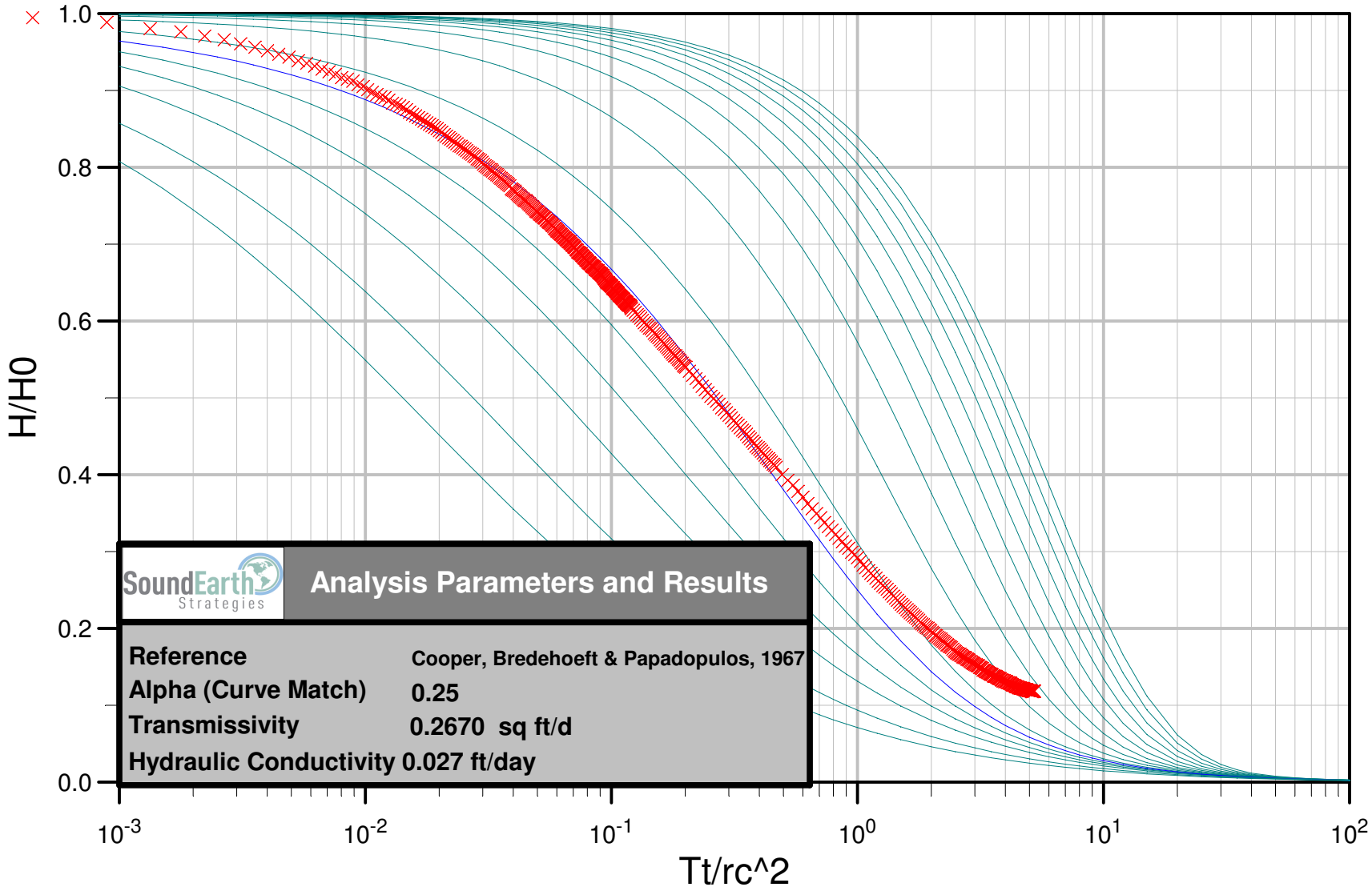
100
101
102
Tt/rc^2

WMW01 Rise1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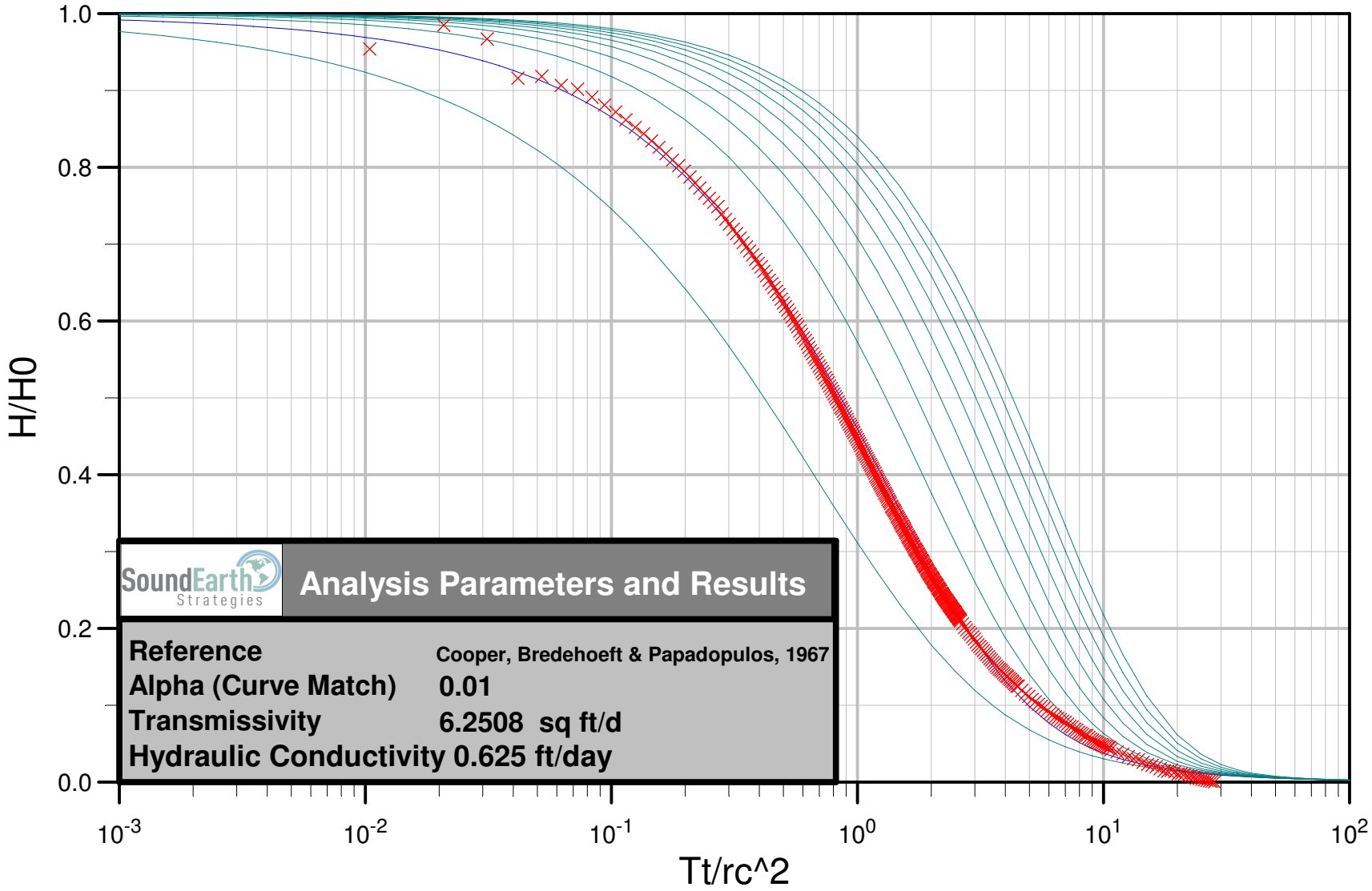
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.25
Transmissivity 0.2670 sq ft/d
Hydraulic Conductivity 0.027 ft/day

WMW02 Fall2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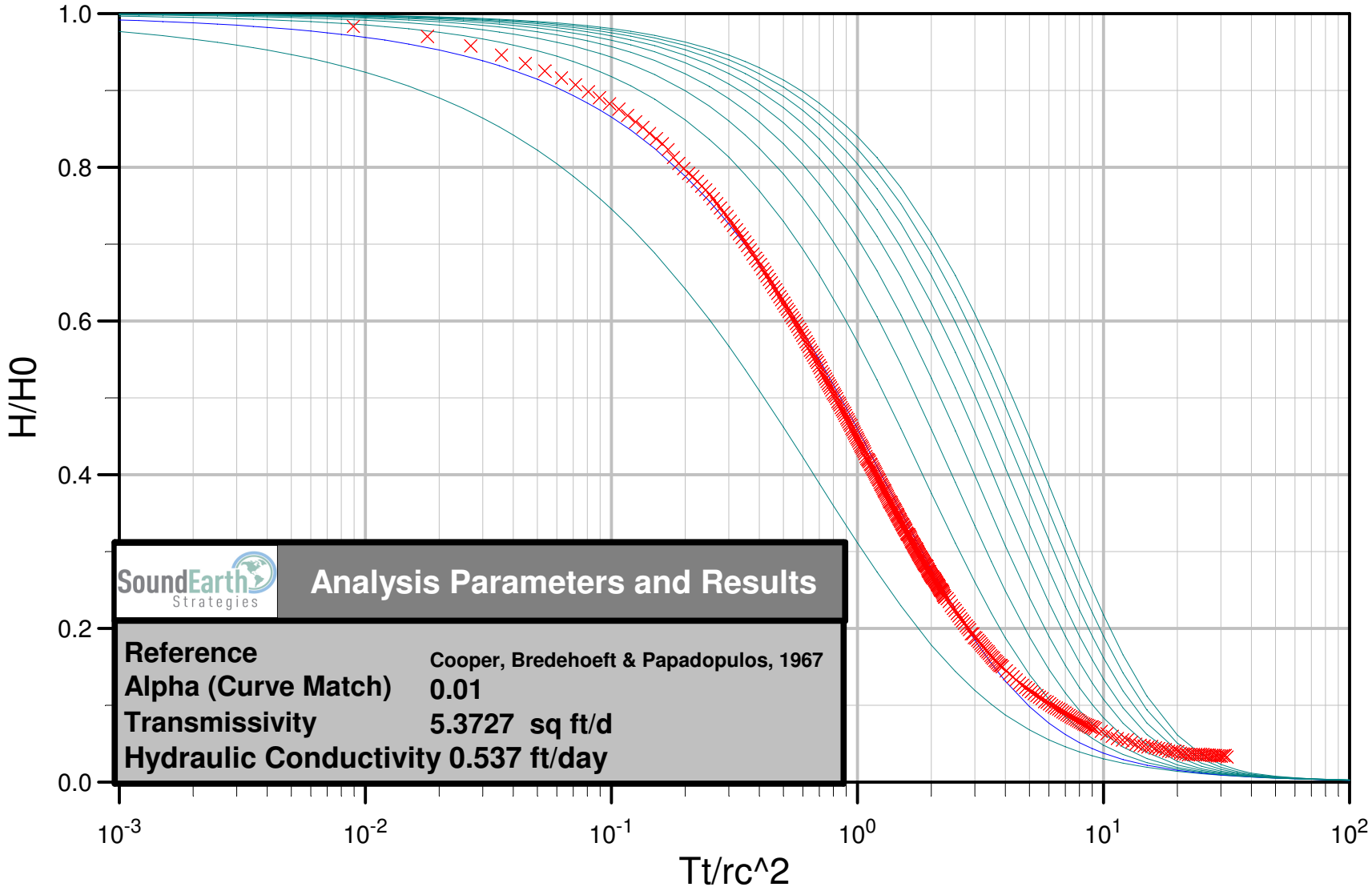
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.01
Transmissivity 6.2508 sq ft/d
Hydraulic Conductivity 0.625 ft/day

WMW02 Rise2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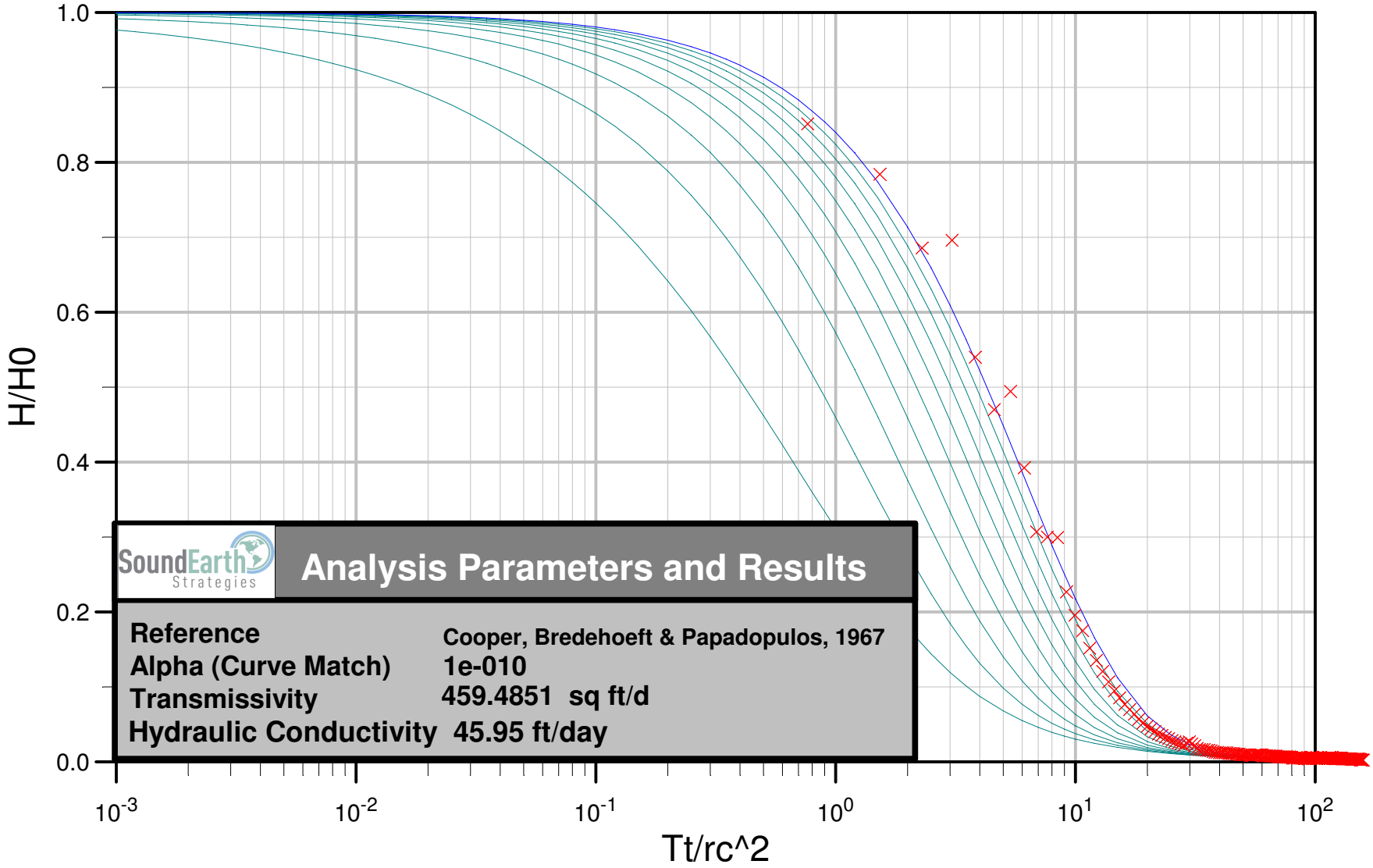
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 0.01
Transmissivity 5.3727 sq ft/d
Hydraulic Conductivity 0.537 ft/day

MW104 Fall1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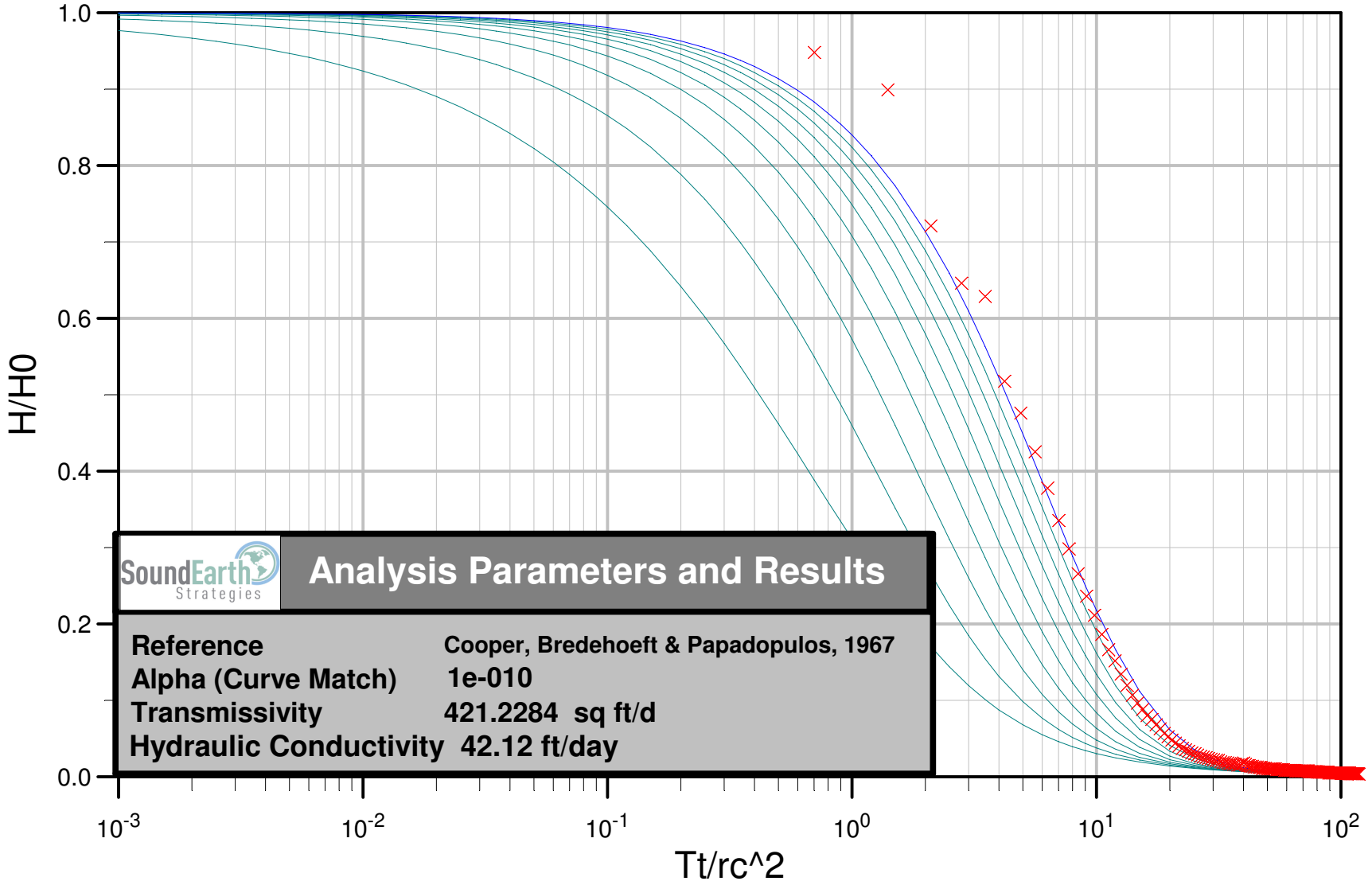
101
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
1e-010
Transmissivity
459.4851 sq ft/d
Hydraulic Conductivity
45.95 ft/day

MW104 Fall2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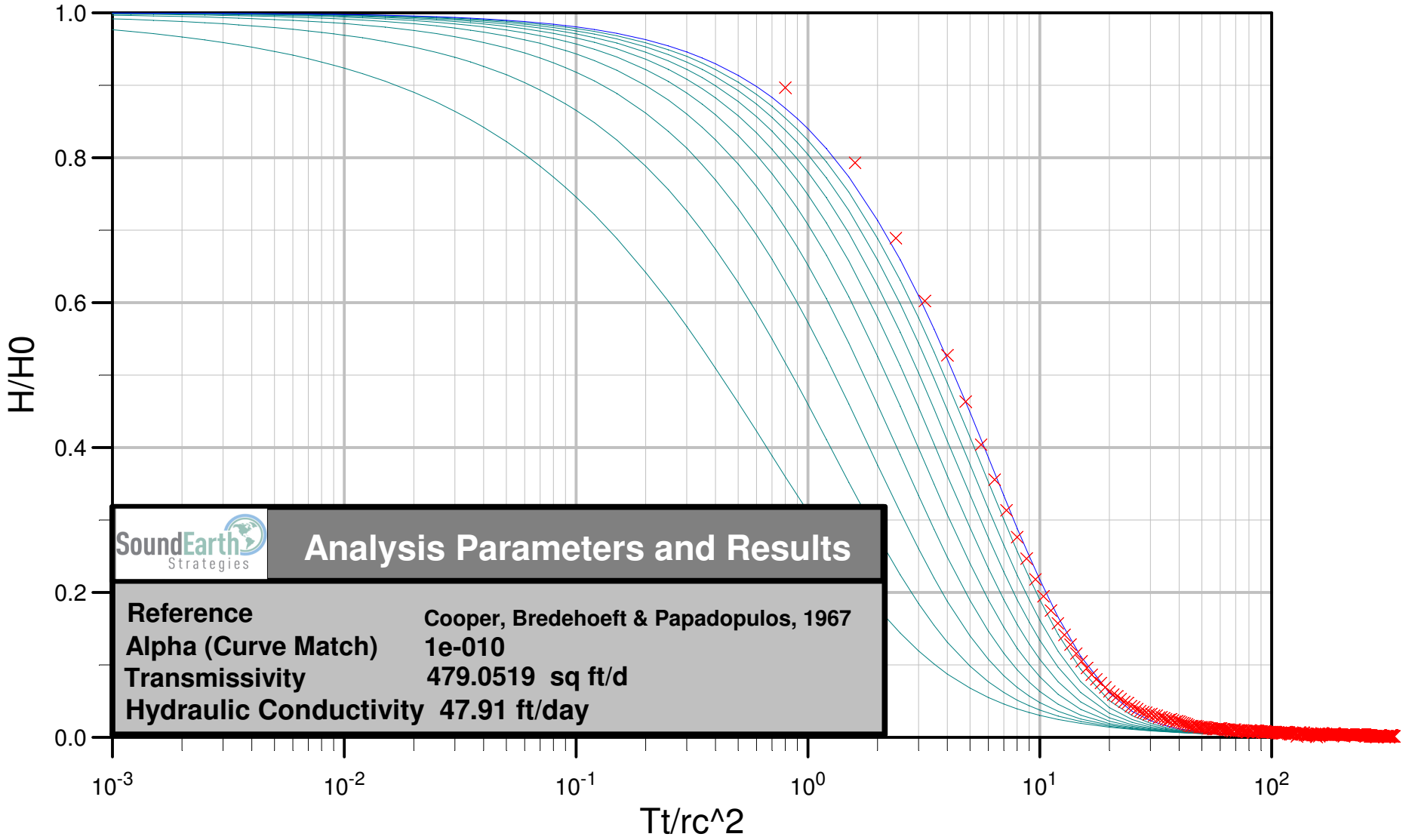
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-010
Transmissivity 421.2284 sq ft/d
Hydraulic Conductivity 42.12 ft/day

MW104 Rise1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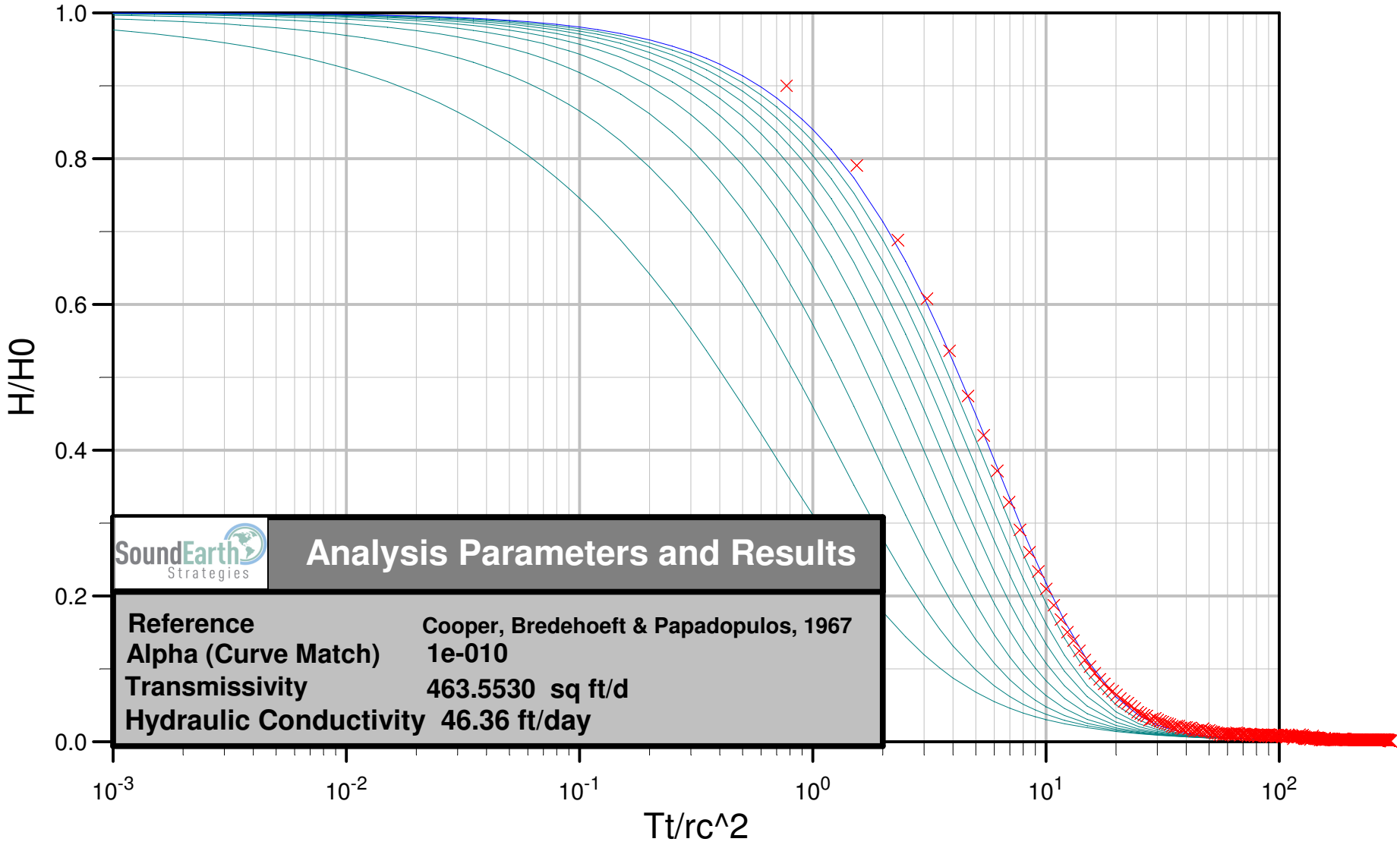
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-010
Transmissivity 479.0519 sq ft/d
Hydraulic Conductivity 47.91 ft/day

MW104 Rise2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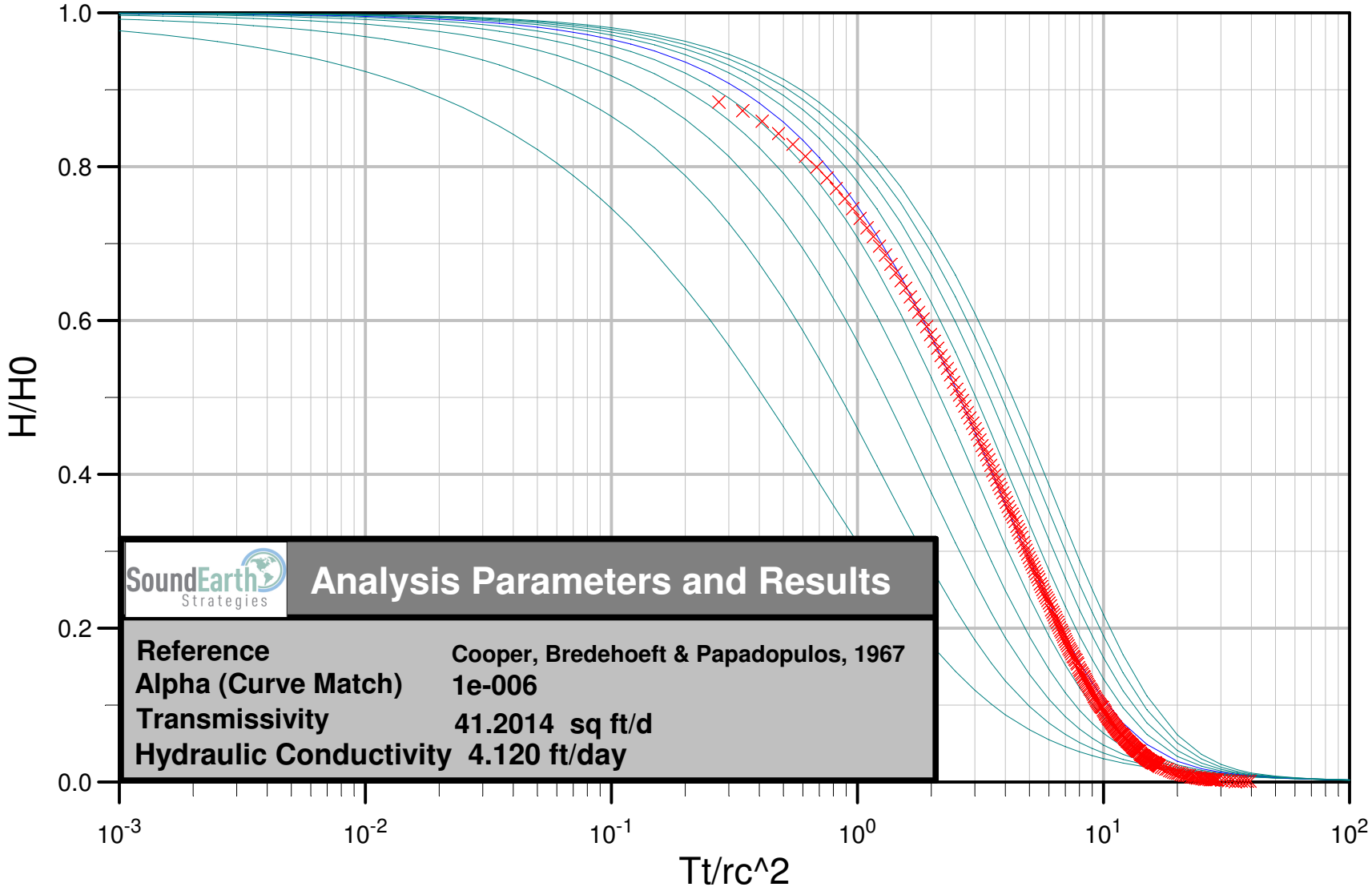
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-010
Transmissivity 463.5530 sq ft/d
Hydraulic Conductivity 46.36 ft/day

MW105 Fall3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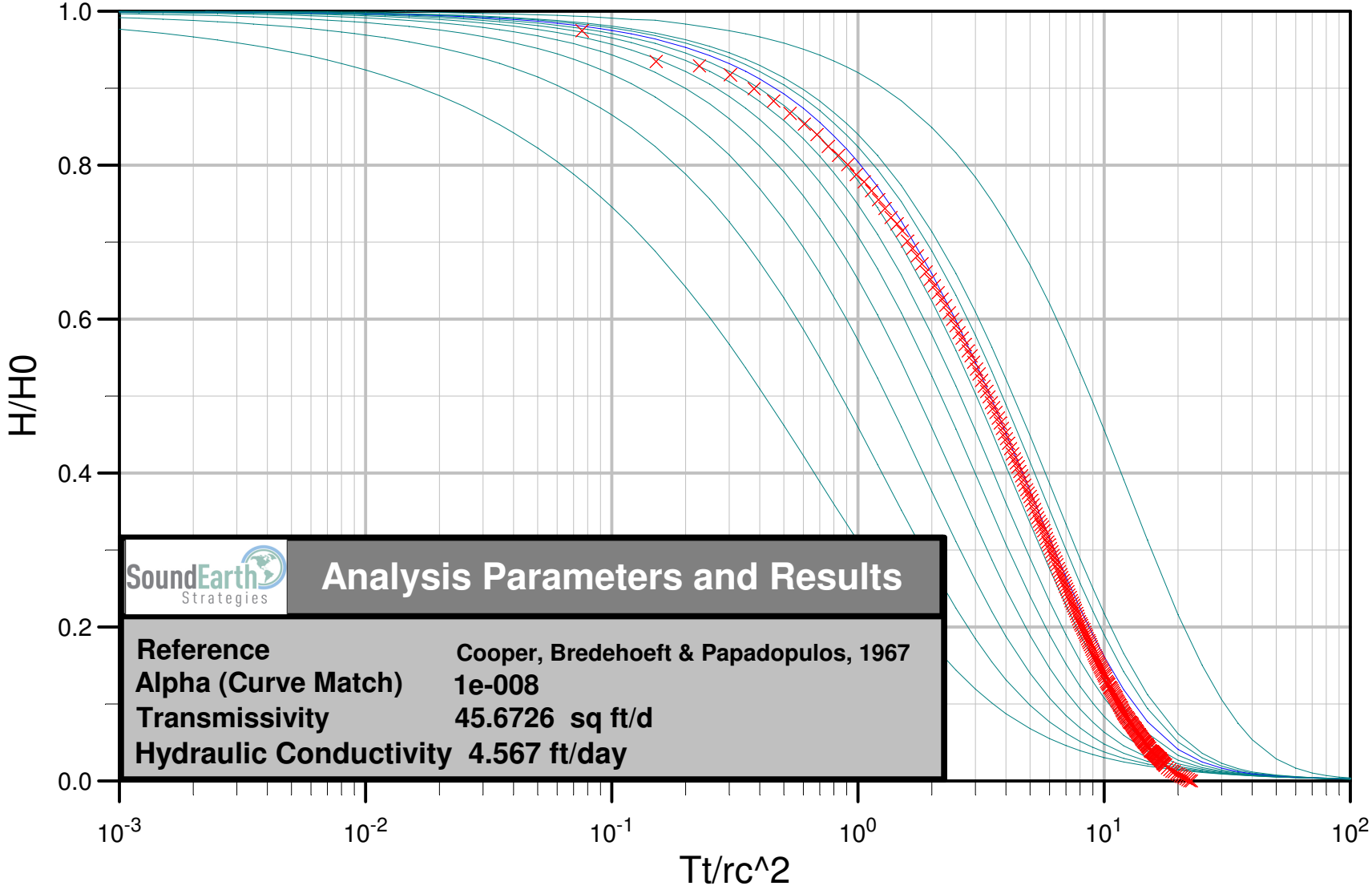
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
1e-006
Transmissivity
41.2014 sq ft/d
Hydraulic Conductivity
4.120 ft/day

MW105 Rise3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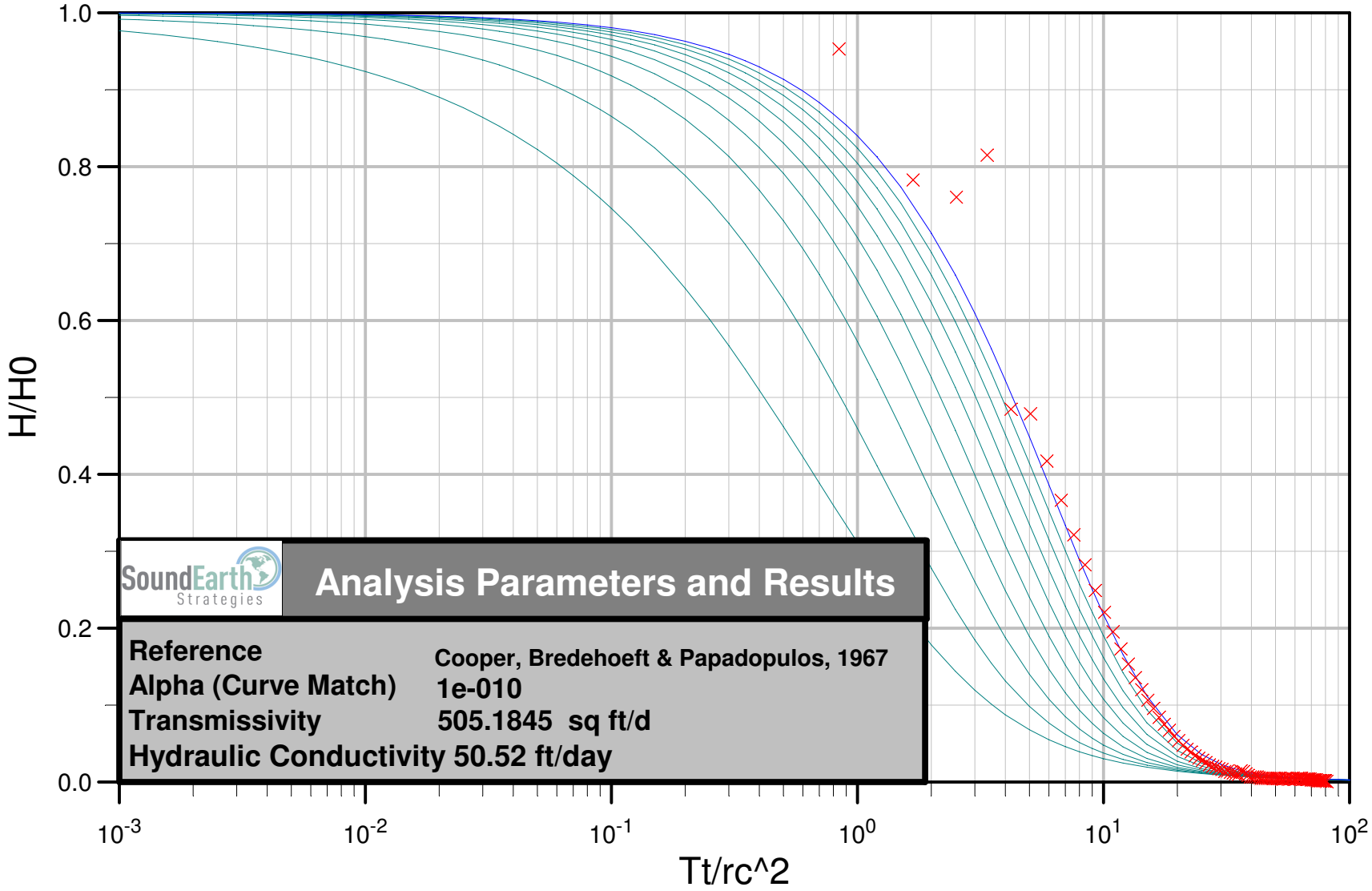
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
1e-008
Transmissivity
45.6726 sq ft/d
Hydraulic Conductivity
4.567 ft/day

MW113 Fall1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10-1
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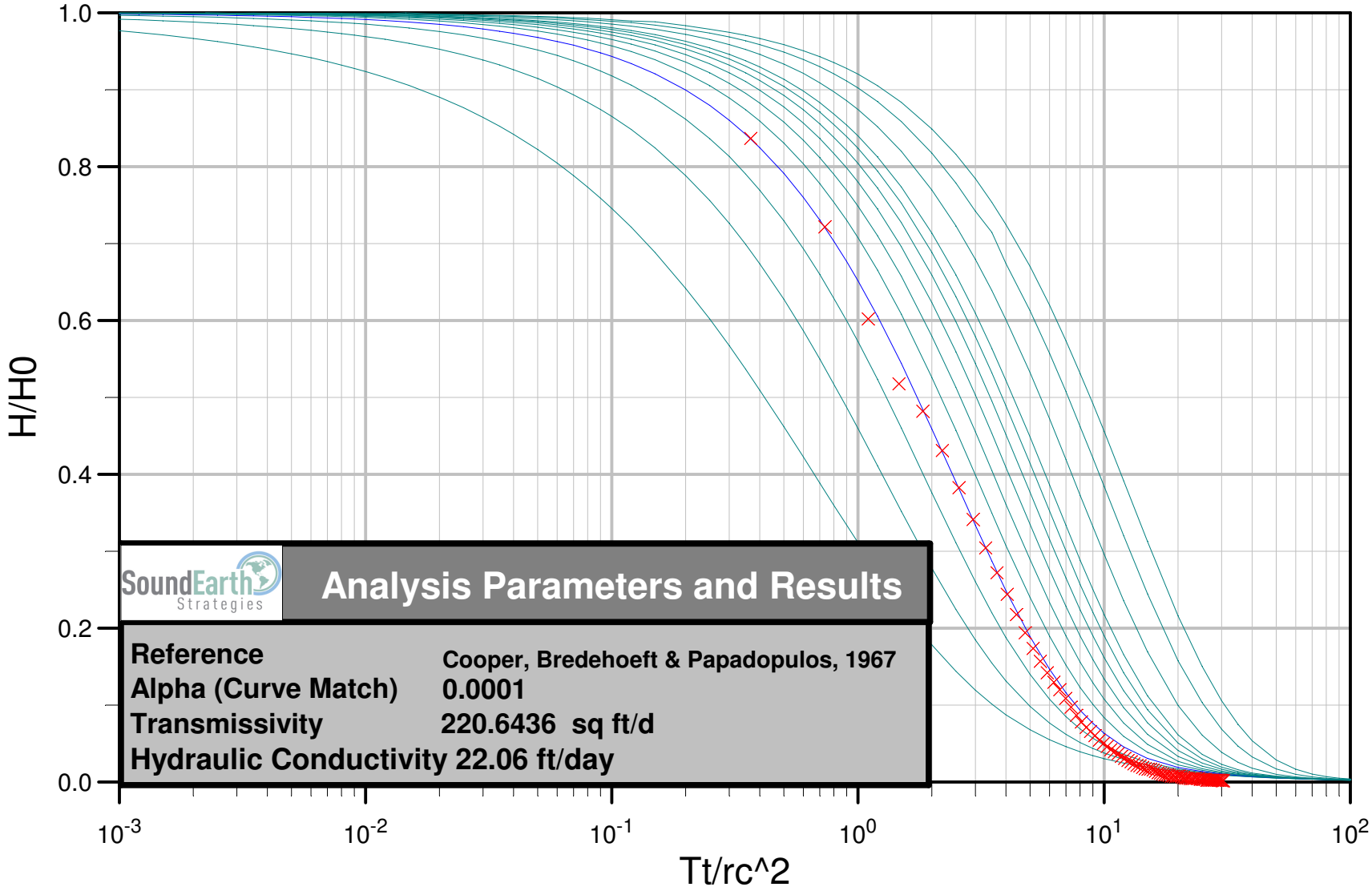
101
102
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
1e-010
Transmissivity
505.1845 sq ft/d
Hydraulic Conductivity 50.52 ft/day

MW113 Fall2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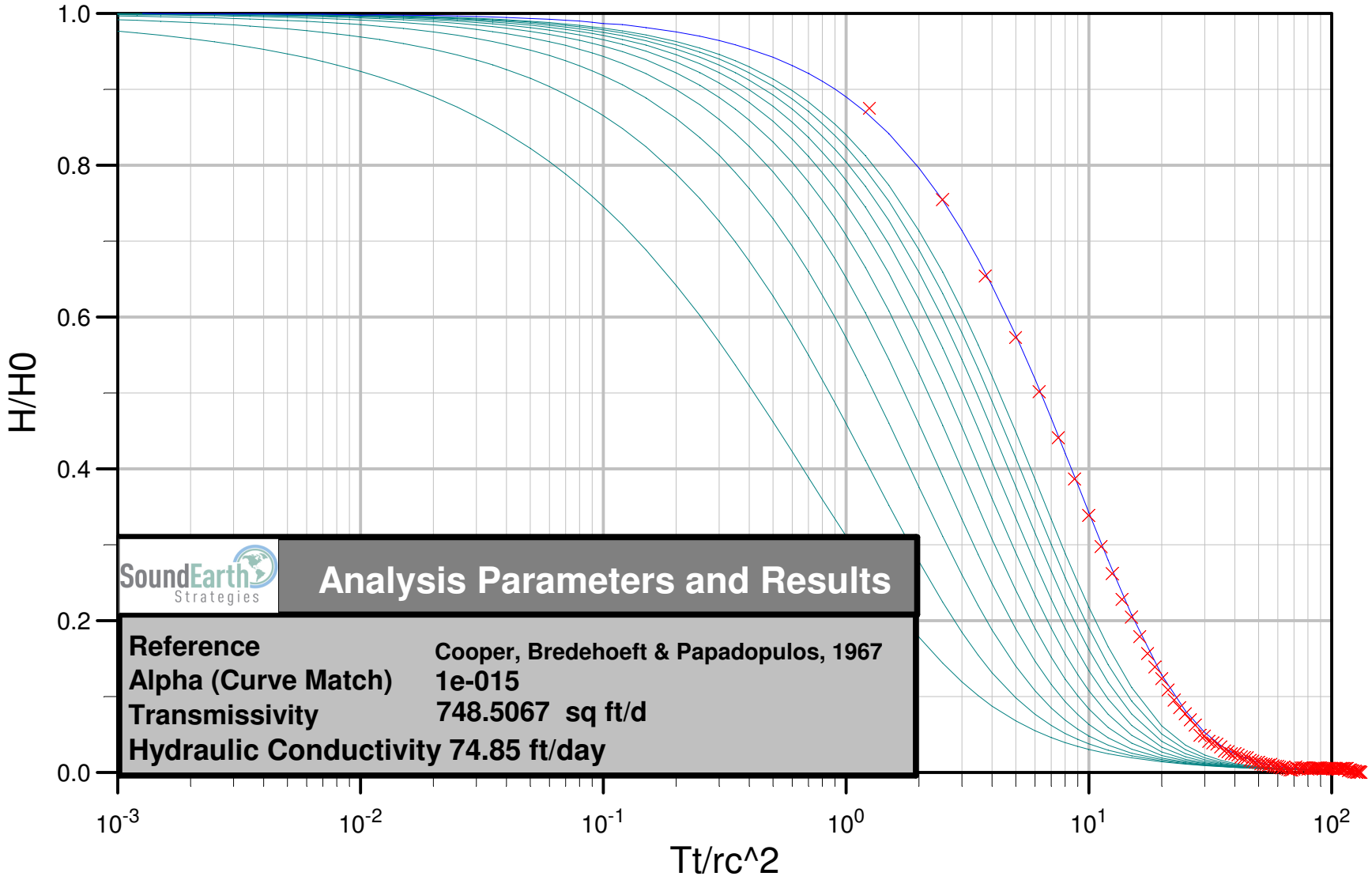
10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
0.0001
Transmissivity
220.6436 sq ft/d
Hydraulic Conductivity 22.06 ft/day

MW113 Rise1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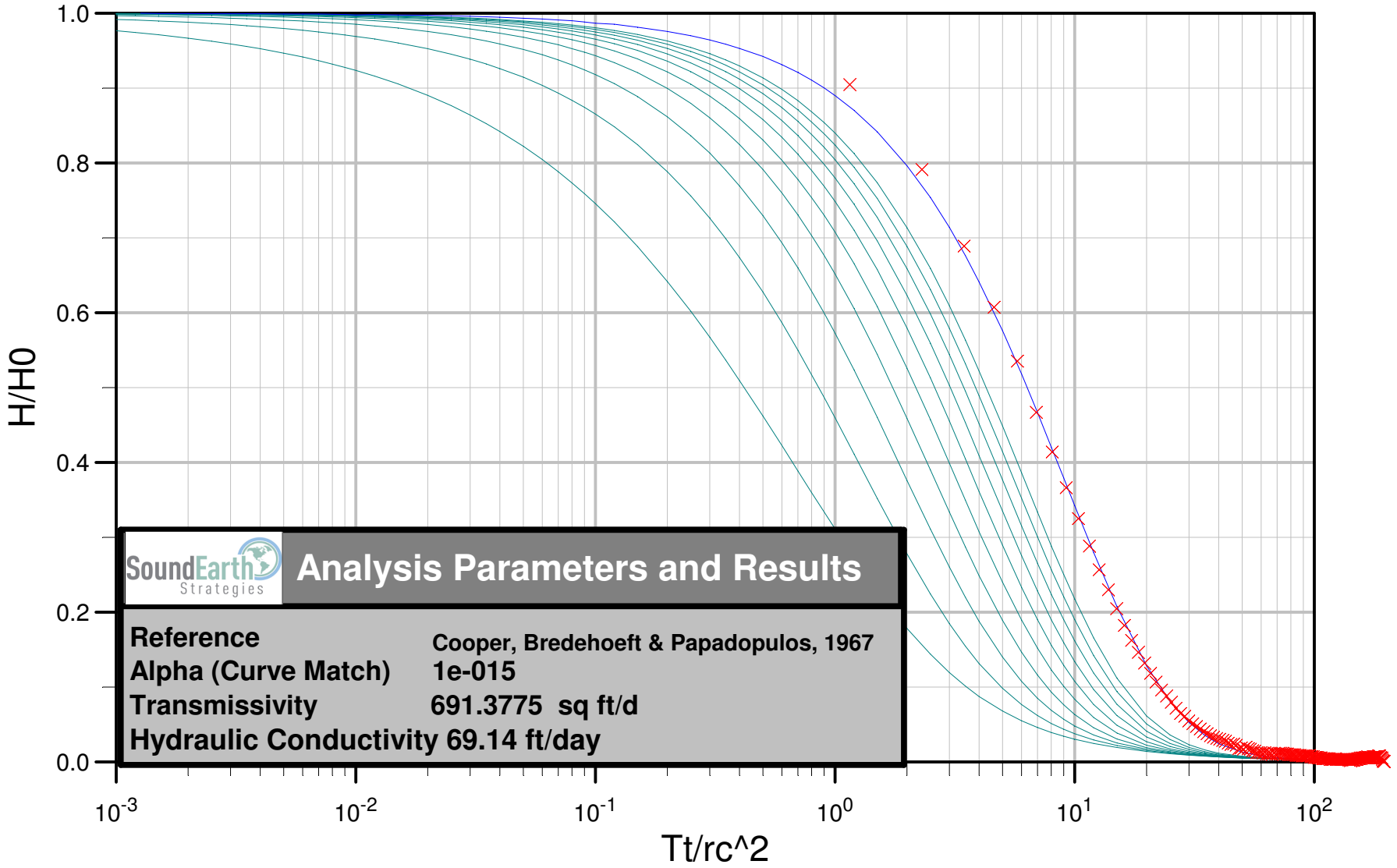
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference
Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match)
1e-015
Transmissivity
748.5067 sq ft/d
Hydraulic Conductivity 74.85 ft/day

MW113 Rise2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H/H0
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10^{-1}
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10^{1}
10^{2}
Tt/rc^2
SoundEarth Strategies
Analysis Parameters and Results
Reference Cooper, Bredehoeft & Papadopulos, 1967
Alpha (Curve Match) 1e-015
Transmissivity 691.3775 sq ft/d
Hydraulic Conductivity 69.14 ft/day

APPENDIX E
UST DECOMMISSIONING REPORT

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

May 23, 2013

Ms. Nicole Christ
Frontier Environmental Management
1821 Blake Street, Suite 3C
Denver, Colorado 80208

SUBJECT: UST ASSESSMENT
700 Dexter Property
700 Dexter Avenue North
Seattle, Washington
Project Number: 0797-001

Dear Ms. Christ:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this report to document the decommissioning and site assessment activities associated with removal of five underground storage tanks (USTs) located at 700 Dexter Avenue North in Seattle, Washington (the Property). The Property location is shown on Figure 1. SoundEarth and SoundEarth Strategies Construction, LLC (SoundEarth Construction) were commissioned by Frontier Environmental Management to remove the five USTs, perform a visual assessment of the USTs, and evaluate the subsurface conditions in the vicinity of the USTs for the presence of a petroleum hydrocarbon release.

PROPERTY INFORMATION/SITE BACKGROUND

The Property is comprised of a single tax parcel (King County parcel number 224900-0285) that covers approximately 61,440 square feet (1.4 acres) of land in the South Lake Union neighborhood of Seattle, Washington. The Property is listed as 700 Dexter Avenue North and has been owned by American Linen Supply Company, doing business as Maryatt Industries, since the 1920s.

The Property was historically improved with three connected buildings: the original 1925-vintage building (Building A), which also included a 1947 addition; a single-story, masonry garage (Building B), which was constructed in 1947 near the northeast corner of the Property; and a two-story, concrete building with basement (Building C), which was constructed on the northwestern portion of the Property in 1966 (Figure 2). The buildings were demolished between January 14 and March 8, 2013, and the Property is currently vacant.

The Property was initially developed prior to 1893 with residences. Residences exclusively occupied the Property until 1925, when Building A was constructed on the southern half of the Property. In 1930, a gasoline service station was built in the northwest corner of the Property and was reportedly equipped with several USTs and two dispenser islands. Building additions were constructed to the north between 1947 and 1966. Building B was constructed in the northeast portion of the Property as an addition to Building A in 1947 and operated initially as a parking garage and automotive repair shop. Four 6,000-gallon USTs in association with the boiler system were installed beneath Building A in 1947. Building C

was constructed on the northwest portion of the Property in 1966. The 1930-vintage gasoline service station was demolished the same year. Building C housed laundry operations, a garage, and offices. A fuel dispenser with as many as three USTs was reportedly constructed in the yard area in 1946. The USTs associated with the 1930-vintage gasoline station and the USTs installed in the yard area in 1946 were reportedly removed from the Property between 1966 and 1985.

On March 5, 2013, nearing the end of demolition activities, an additional UST with a capacity of approximately 500 gallons was identified near the former northern wall of the 1925-vintage building; its contents was determined to be water. Based on building plans and the side sewer card for the Property, the tank appeared to be installed before 1966 and operated as a wastewater cooling tank associated with the laundering processes.

Property features and locations are presented in plan view on Figure 2.

UNDERGROUND STORAGE TANK SITE ASSESSMENT SCOPE AND METHODOLOGY

SoundEarth Construction mobilized to the Property on March 21 and March 22, 2013, to remove the four 6,000 gallon USTs associated with the boiler system (Tank 1 through Tank 4) and the one UST discovered during demolition activities (Tank 5).

A Washington State Certified UST Site Assessor (ICC00202958, Appendix A) from SoundEarth performed a visual assessment of the USTs, which were removed and temporarily staged on the Property prior to disposal. Tank 1 through Tank 4 were reported to have been empty and in good condition during the time of removal. Tank 5 was reported to have several holes and was in visibly poor condition. Tank 1 through Tank 4 each measured approximately 6 feet in diameter by 28 feet in length, and were constructed of single-walled steel. Tank 5 measured approximately 3 feet in diameter by 10 feet in length, and was also constructed of single-walled steel, although of a much lighter gauge. Using visual, olfactory, and analytical methods, the contents of Tank 1 through Tank 5 were determined to be Bunker C fuel oil.

The USTs were triple rinsed by Marine Vacuum Service, of Seattle, Washington, and disposed of at Seattle Iron and Metal, of Seattle, Washington. UST decommissioning documentation is provided in Appendix B.

FIELD SCREENING AND SOIL SAMPLE COLLECTION

During the UST decommissioning on March 21 and March 22, 2013, soil was field-screened for the presence of petroleum hydrocarbons using olfactory and visual methods. A small amount of petroleum-contaminated soil was observed in the vicinity of Tank 1 and Tank 4; however, given the nature and extent of observed impacts, this was likely due to overfilling and was not indicative of a substantial release. The soil screened in the vicinity of Tanks 2, 3, and 5 did not exhibit any indications of a petroleum release.

Upon removing the concrete foundation in the vicinity of Tank 2, a pool of liquid mercury was discovered, likely as the result of a broken gauge. The mercury was containerized and disposed of as hazardous waste to a regulated facility under the oversight of NRC Environmental Services, of Seattle Washington.

Performance soil samples were collected from the bottom and sidewalls of the tank excavation (Figure 3). Samples were labeled and placed into an iced cooler and transported to Friedman & Bruya, Inc. of Seattle, Washington, under standard chain-of-custody protocol for laboratory analysis. Soil samples were submitted for laboratory analysis for diesel- and oil-range petroleum hydrocarbons (DRPH and ORPH, respectively) by Northwest Total Petroleum Hydrocarbon Method NWTPH-Dx, and/or Resource Conservation and Recovery Act 8 Metals including: chromium, arsenic, selenium, silver, cadmium, barium, lead, and mercury by U.S. Environmental Protection Agency Method 200.8 and 1631E. Laboratory analytical results are included as Appendix C.

The soil samples collected beneath Tank 1 and from the sidewall in the vicinity of Tank 4 contained detectable concentrations of DRPH and ORPH, although the concentrations were below their respective Washington State Model Toxics Control Act (MTCA) Method A cleanup level of 2,000 milligrams per kilogram. The remaining 11 soil samples did not contain any detectable concentrations of DRPH or ORPH. The soil sample collected beneath Tank 2 contained a mercury concentration of 0.28 milligrams per kilogram, consistent with similar mercury concentrations detected elsewhere on the Site, and well below the MTCA Method A cleanup level. The analytical results are summarized in Table 1.

CONCLUSIONS

The results of the UST site assessment conducted at the Property indicate that the soil quality sampled in the vicinity of the former USTs is protective of human health and the environment. This conclusion is based on analytical data that confirms that the chemicals of concern were not detected above the applicable MTCA Method A cleanup levels in confirmation soil samples collected from the limits of the UST pits.

LIMITATIONS

The services described in this report were performed in a manner consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. SoundEarth is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. SoundEarth does not warrant the accuracy of information supplied by others or the use of segregated portions of this report.

CLOSING

We appreciate the opportunity to provide you with technical services. If you have any questions, please contact us at (206) 306-1900.

Respectfully,

SoundEarth Strategies, Inc.

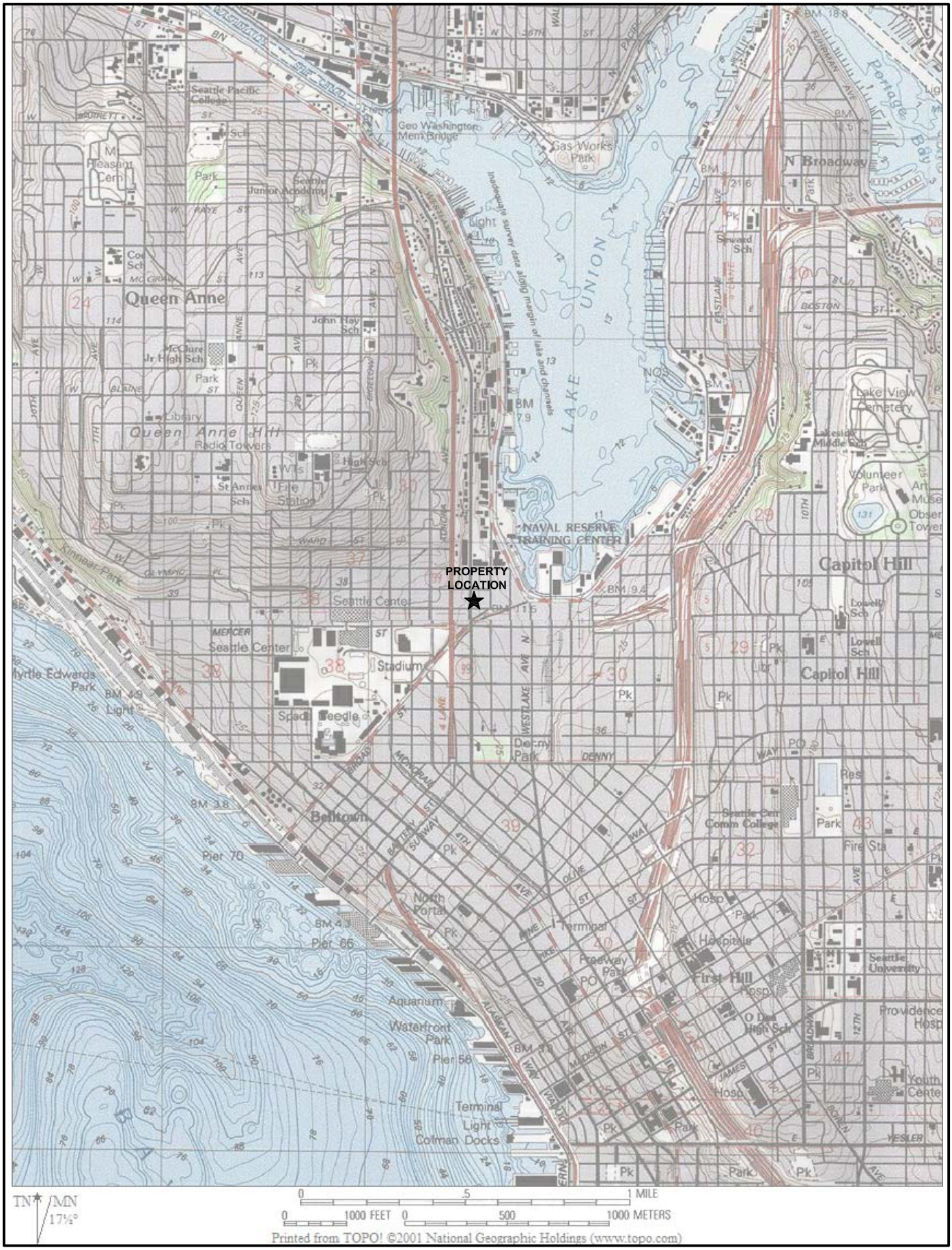
Brian Dixon
Associate Scientist

Attachments: Figure 1, Property Location Map
Figure 2, Property Plan
Figure 3, UST and Soil Sample Locations
Table 1, Summary of Soil Analytical Results
A, UST Site Assessor Certificate
B, UST Decommissioning Documentation
C, Laboratory Analytical Report
Friedman & Bruya, Inc. #303333

BAD:dnm/amr

FIGURES

11/9/2012



SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 11/07/12
DRAWN BY: NAC
CHECKED BY: DRAFT
CAD FILE: 0797-001_FIG1

PROJECT NAME: 700 DEXTER PROPERTY
PROJECT NUMBER: 0797-001
STREET ADDRESS: 700 DEXTER AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

FIGURE 1
PROPERTY LOCATION MAP

P:\0797 FRONTIER ENV MGMT\700 DEXTER\TECHNICAL\CAD\FIGURE 1\0797-001 FIG1.DWG

WWW.SOUNDEARTHINC.COM

5/23/2013

VALLEY STREET

DEXTER AVENUE NORTH

8TH AVENUE NORTH

N

BUILDING C
(1966)

LOADING DOCK

BUILDING B
(1947)

BUILDING A
(1925)

NO BASEMENT

ROY STREET

LEGEND

PROPERTY BOUNDARY

FORMER BUILDING OUTLINE

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 03/07/13
DRAWN BY: NAC
CHECKED BY: BAD
CAD FILE: 0797-001_2013RI_PP

PROJECT NAME: 700 DEXTER PROPERTY
PROJECT NUMBER: 0797-001
STREET ADDRESS: 700 DEXTER AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 20 40 80
APPROXIMATE SCALE IN FEET

FIGURE 2
PROPERTY PLAN

P:\0797 FRONTIER ENV MGMT\700 DEXTER\TECHNICAL\CAD\UST\0797-001_2013RI_PP.DWG

WWW.SOUNDEARTHINC.COM

5/23/2013

VALLEY STREET

DEXTER AVENUE NORTH

8TH AVENUE NORTH

N

TANK5-WSW02

COOLING TANK
(TANK 5)
TANK5-ESW02

TANK5-F03

TANK4-NSW08

TANK4-F10

TANK 4

TANK1-WSW06

TANK 1-F08

TANK2-NSW06

TANK2-F08

TANK3-F08

TANK3-ESW05

TANK1-SSW06

TANK3-SSW05

TANK 1

TANK 2

TANK 3

ROY STREET

LEGEND

NSW06 — UST SAMPLE LOCATION

PROPERTY BOUNDARY

UST — UNDERGROUND STORAGE TANK

P:\0797 FRONTIER ENV MGMT\700 DEXTER\TECHNICAL\CAD\UST\0797-001 2013RI UST.DWG

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 03/07/13
DRAWN BY: NAC
CHECKED BY: BAD
CAD FILE: 0797-001_2013RI_UST

PROJECT NAME: 700 DEXTER
PROJECT NUMBER: 0797-001
STREET ADDRESS: 700 DEXTER AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 20 40 80

APPROXIMATE SCALE IN FEET

FIGURE 3

UST AND SOIL SAMPLE LOCATIONS

WWW.SOUNDEARTHINC.COM

TABLE

SoundEarth Strategies

Table 1
Summary of Soil Analytical Results
700 Dexter Avenue North
Seattle, Washington

Sample Location	Sample ID	Sample Date	Sampled By	Sample Depth (feet bgs)	Analytical Results (mg/kg) DRPH[1]	ORPH[1]	Mercury[2]
Tank 1 Excavation	Tank1-SSW06	03/22/13	SoundEarth	6	<50	<250	--
	Tank1-WSW06			6	<50	<250	--
	Tank1-F08			8	120[x]	340	--
Tank 2 Excavation	Tank2-NSW06	03/22/13	SoundEarth	6	<50	<250	--
	Tank2-F08			8	<50	<250	0.28
Tank 3 Excavation	Tank3-ESW05	03/22/13	SoundEarth	5	<50	<250	--
	Tank3-SSW05			5	<50	<250	--
	Tank3-F08			8	<50	<250	--
Tank 4 Excavation	Tank4-NSW08	03/22/13	SoundEarth	8	460[x]	360	--
	Tank4-F10			10	<50	<250	--
Tank 5 Excavation	Tank5-ESW02	03/22/13	SoundEarth	2	<50	<250	--
	Tank5-WSW02			2	<50	<250	--
	Tank5-F03			3	<50	<250	--
MTCA Cleanup Level for Soil					**2,000[3]**	**2,000[3]**	**2[3]**

NOTES:
[1]Analyzed by Method NWTPH-Dx.
[2]Analyzed by EPA Method 1631E.
[3]MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, revised November 2007.
Laboratory Note:
[x]The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

< = not detected at a concentration exceeding laboratory reporting limit
bgs = below ground surface
DRPH = diesel-range petroleum hydrocarbons
EPA = U.S. Environmental Protection Agency
mg/kg = miligrams per kilograms
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbon
ORPH = oil-range petroleum hydrocarbons
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington State Administrative Code

APPENDIX A
UST SITE ASSESSOR CERTIFICATE

TO VERIFY AUTHENTICITY OF THIS DOCUMENT YOU MUST TURN OVER AND RUB THE PEARSON VUE LOGO WITH FINGER. AUTHENTIC DOCUMENT WILL CHANGE COLOR FROM ORANGE TO YELLOW

ICC
INTERNATIONAL CODE COUNCIL

Washington Site Assessment

Candidate ID: ICC00202958

Name: Will Camarda Date: 7/18/2012

Address: 2811 FAIRVIEW AVE EAST, SUITE 2000

SEATTLE WA 98102

EXAMINATION RESULT: **PASS**

Congratulations! You have passed the above named examination. Your wallet card will be forwarded to you by ICC within six weeks from the last day of the month in which you tested. This certificate is current for two years.

You may request a wall certificate from ICC as well. This certificate will be provided at no cost to you, if you request it within 90 days of your exam. Only one wall certificate per exam passed will be provided to you at no charge. For more information on requesting a wall certificate, go to www.iccsafe.org/inspector.

It is extremely important that you notify Pearson VUE and ICC of any changes in name and/or address to avoid the possibility of your wallet card and/or certificate not being received. Please contact Pearson VUE at 800-275-8301 and ICC at certexam@iccsafe.org with changes to your name and address (name changes may require additional documentation). There may be an additional fee if a certification is re-issued due to a misspelled name or incorrect address.

THE FACE OF THIS DOCUMENT HAS A MULTI COLORED BACKGROUND THAT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH LEFT AND RIGHT

APPENDIX B
UST DECOMMISSIONING DOCUMENTATION

Northwest Marine Chemist, Inc.
George Blair
P.O. Box 7084
Tacoma, WA 98417
(253) 752-0149

MARINE CHEMIST CERTIFICATE

SERIAL NO. ST-1309

Sound Earth Strategies Const.	Same	March 21, 2013
Survey Requested by	Vessel Owner or Agent	Date
TANK Farm	Underground Storage Tank	700 Dexter
Vessel	Type of Vessel	Specific Location of Vessel
Bunker Fuel, Diesel	O2-LEL. Visual	1000 Hrs.
Last Three (3) Cargoes	Test Method	Time Survey Completed

1-6,000 gal UST (West) — Secured
Oxygen = 5.9%
1-6,000 gal UST (Center) — Not Safe For Workers
Oxygen = 4.8%
1-6,800 gal UST (East) — ①Safe For Limited Hotwork
Oxygen = 5.9%
1-6008 gal UST (North)
Oxygen = 2.6%

① Limitations: Safe for excavation and cutting of Access.
These Tanks Have been Purged with CO_2 to <6% Oxygen.

Ventilate and Test for 20.8% Oxygen to properly Dispace of inerting Gas.

1-1,000 gal ea pressure Vessel — Atmosphere Safe For Workers
Oxygen = 20.8% LEL = 0% — ②Safe For Limited Hotwork
② Limitations =
Safe for excavation and Disposal

END

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

STANDARD SAFETY DESIGNATIONS

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to .be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in the condition of each to be in accordance with its assigned designation.

This Certificate is based on conditions existing at the time the inspection herein set forth was and is issued subject to compliance with all qualifications and instructions."

Signed	[illegible]	SES Const	3/21/13	Signed	[illegible] #637
	Name	Company	Date	Name	Certificat No.

RECEIVED

MAR 2 1 2013

PERMIT SECTION

Fri. 3/22/13 2:00 PM

Your
Seattle
Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908 — Commercial Tank Removal/Decommissioning

Permit Fee: $208.00

Date Issued: 3/22/13

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	SandEarth Strategies Construction LLC
MAILING ADDRESS	2811 Fairview Ave E. SUITE 2000
CITY	Seattle STATE WA ZIP 98102
JOBSITE ADDRESS	700 Dexter Ave N Seattle WA 98109
CONTACT PERSON	Elsa Tibbits PHONE NUMBER (206) 462-0380

Number of Tank(s): 5 Tank Size(s): 4 x 6,000 gal (1 underground (water table) washed)

Product(s) Previously Contained: Heating Oil

☐ Aboveground tank ☒ Underground tank

☒ Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)

☐ Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)

Hot work being conducted: ☐ No ☒ Yes (If yes, a separate hot work permit is required) Validation Code 35

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office – Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: *Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)*

FMO USE:
Check No.: CC-358467561 3
Receipt No.: 5-213678
Application ID#: 92085

APPROVED BY:
Inspector: J. WILLIAMS SFD ID# 1481
Name of Marine Chemist GEORGE BLAIR Certificate # SGE 3/21/13
Date: 3/22/13

(01/13)

THUR. 3/21/13 - 10:00

Your Seattle Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908 Commercial Tank Removal/Decommissioning

Permit Fee: $208.00

Date Issued: 3/21/13

Tank(s) must be removed from site same day as permit issued!

TO BE COMPLETED BY PERMIT APPLICANT (PLEASE PRINT)

FIRM NAME SOUND EARTH STRATEGIES CONSTRUCTION

MAILING ADDRESS 2811 FAIRVIEW AV. E. SUITE 2000

CITY SEATTLE STATE WA ZIP 98102

OPERATION ADDRESS 700 DEXTER AVE. N.

CONTACT PERSON ELSA TIBBITS PHONE NUMBER (206) 462-0380

Number of Tank(s): 5 Tank Size(s): 4X6,000 GAL 1-H20?

☐ Aboveground tank

Product(s) Previously Contained: BUNKER

☒ Underground tank

☒ Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)

☐ Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and unknowns)

VALIDATION #35

Hot work being conducted?: ☐ No ☒ Yes (If yes, a separate hot work permit is required)

Please include a check made payable to the CITY OF SEATTLE with this application.

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office—Permits
220 Third Ave South, Second Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card, fax or email application;
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT
Tel: (206) 386-1450 / Fax: (206) 386-1348
E-mail: permits@seattle.gov

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.

TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION

No hot work is allowed on a tank system prior to issuance of this Fire Department permit!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: ***Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)***

MARINE CHEMIST TO REMAIN ONSITE DURING ALL HOT WORK OPERATIONS.

FMO USE

Receipt No.: 5213346

Check No.: 358415338 8

Application ID#: 91982

APPROVED BY

Inspector: T. WILLIAMS **SFD ID#** 1481

Name of Marine Chemist GEORGE BLAIR 437 **Certificate #** ST-1309

Date: 3/21/13

(01/11)

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: 1000 Gallons x 4

Last Contents Waste Oil

Tank Location: 700 Dexter Ave

Seattle WA 98109

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are **NOT GAS FREE** or **NOT SAFE FOR HOT WORK**

Tank Owner: Frontier Environmental Management

Contractor: Soundearth construction

M.V.S. Representative: Sokha Chhi

Date: 3-22-18

Notes:

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 012899

Carrier No. _____

Page _____ of _____

MARINE VACUUM SERVICE INC.
(Name of carrier) (SCAC)

Date 3-22-13

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE INC.
Street 1516 S. GRAHAM ST.
City SEATTLE State, WA Zip Code 98108

FROM:
Shipper Soundearth Contracting
Street 900 Dexter Ave N.
City Seattle State WA Zip Code
24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1T		Non Regulated Waste Water	2000	Gallons		
		Waste Oil	1000	Gallons		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____
(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Exhibits
PER

CARRIER MARINE VACUUM SERVICE INC.
PER
DATE 3-22-13

3

Permanent post-office address of shipper.

PRINTED ON RECYCLED PAPER USING SOYBEAN INK
PRINTED WITH SOY INK

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 012974

Carrier No.

Page 1 of 4

MARINE VACUUM SERVICE INC.
(Name of carrier) (SCAC)

Date 3-22-13

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE INC.
Street 1516 S. GRAHAM ST.
City SEATTLE State, WA Zip Code 98108

FROM:
Shipper Sound Earth Construction LLC
Street 700 Dexter AVE
City Seattle State WA Zip Code
24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number #25

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TL		Non Regulated material				
		Waste Black oil	1000	gallons		
		Waste Water	1400	gallons		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Sound Earth Construction LLC
PER
DATE

CARRIER MARINE VACUUM SERVICE INC.
PER Eunice
DATE 3-22-13

4

Permanent post-office address of shipper.

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This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 012973

Carrier No.

Page 1 of 4

MARINE VACUUM SERVICE INC.
(Name of carrier) (SCAC)

Date 3-22-13

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE INC.
Street 1516 S. GRAHAM ST.
City SEATTLE State, WA Zip Code 98108

FROM:
Shipper Sound Earth Constructions LLC
Street 700 Dexter AVE
City Seattle State WA Zip Code
24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number 129

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 IT		Non Regulated materials				
		Waste Black oil	1500	Gallons		
		Waste Water	1500	Gallons		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Sound Earth Construction LLC
PER Dan Kuhn
DATE

CARRIER MARINE VACUUM SERVICE INC.
PER Ennis
DATE 3-22-13

4

Permanent post-office address of shipper.

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is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 013206

Carrier No. _____

Page _____ of _____

MARINE VACUUM SERVICE INC.
(Name of carrier) (SCAC)

Date 3/20/13

On Collect on Delivery shipments, the letters"COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee MARINE VACUUM SERVICE INC.
Street 1516 S. GRAHAM ST.
City SEATTLE State, WA Zip Code 98108

FROM:
Shipper Sound Environmental LLC
Street 700 Bronx Ave N
City Seattle State WA Zip Code
24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number 127

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
		Tank 6000 gal	1			

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Global Tidal Sys Const

PER

CARRIER MARINE VACUUM SERVICE INC.

PER

DATE 3-20-13

4

Permanent post-office address of shipper.

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Marine Vacuum Service, _Inc._

GENERAL CONTRACTOR

CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

STORAGE TANK

CERTIFICATE OF DESTRUCTION

DATE: 4/17/13

TANK OWNER: Sound Earth Construction

TANK LOCATION: 700 Dexter ave. Seattle

TANK DESCRIPTION: 4) UST's 6,000 gal. each

LAST CONTENTS HELD IN TANKS: black oil / wastewater

Marine Vacuum Service, Inc certifies that the tank mentioned above was pumped of all liquid materials and washed clean with a high-pressure washer and soap solution. The tank and contents therein have been disposed of according to all Local, State and Federal Regulations.

Thank you,

Marine Vacuum Service, Inc.

APPENDIX C
LABORATORY ANALYTICAL REPORT

Friedman & Bruya, Inc. #303333

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 28, 2013

Brian Dixon, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Dixon:

Included are the results from the testing of material submitted on March 22, 2013 from the SOU_0797_20130322, F&BI 303333 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Chuck Cacek
SOU0328R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 22, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130322, F&BI 303333 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303333 -01	Tank5-F03
303333 -02	Tank5-WSW02
303333 -03	Tank5-ESW02
303333 -04	Tank3-ESW05
303333 -05	Tank3-SSW05
303333 -06	Tank3-F08
303333 -07	Tank4-F10
303333 -08	Tank4-NSW08
303333 -09	Tank2-F08
303333 -10	Tank2-NSW06
303333 -11	Tank1-F08
303333 -12	Tank1-SSW06
303333 -13	Tank1-WSW06

All quality control requirements were acceptable.

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333
Date Extracted: 03/25/13
Date Analyzed: 03/25/13 and 03/26/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 48-168)
Tank5-F03 303333-01	<50	<250	92
Tank5-WSW02 303333-02	<50	<250	76
Tank5-ESW02 303333-03	<50	<250	96
Tank3-ESW05 303333-04	<50	<250	77
Tank3-SSW05 303333-05	<50	<250	96
Tank3-F08 303333-06	<50	<250	77
Tank4-F10 303333-07	<50	<250	80
Tank4-NSW08 303333-08	460 x	360	80
Tank2-F08 303333-09	<50	<250	79
Tank2-NSW06 303333-10	<50	<250	79
Tank1-F08 303333-11	120 x	340	79

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333
Date Extracted: 03/25/13
Date Analyzed: 03/25/13 and 03/26/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 48-168)
Tank1-SSW06 303333-12	<50	<250	78
Tank1-WSW06 303333-13	<50	<250	77
Method Blank 03-526 MB	<50	<250	97

Analysis For Total Metals By EPA Method 200.8

Client ID:	Tank2-F08	Client:	SoundEarth Strategies
Date Received:	03/22/13	Project:	SOU_0797_20130322, F&BI 303333
Date Extracted:	03/25/13	Lab ID:	303333-09
Date Analyzed:	03/26/13	Data File:	303333-09.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	102	60	125
Holmium	103	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	10.8
Arsenic	1.81
Selenium	<1
Silver	<1
Cadmium	<1
Barium	39.4
Lead	6.94

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20130322, F&BI 303333
Date Extracted:	03/25/13	Lab ID:	I3-132 mb
Date Analyzed:	03/26/13	Data File:	I3-132 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	101	60	125
Holmium	103	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	<1
Arsenic	<1
Selenium	<1
Silver	<1
Cadmium	<1
Barium	<1
Lead	<1

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333
Date Extracted: 03/25/13
Date Analyzed: 03/25/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
Tank2-F08 303333-09	0.28
Method Blank	<0.1

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 303333-12 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	83	86	73-135	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	83	74-139

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 303345-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	14.2	89 b	89 b	57-128	0 b
Arsenic	mg/kg (ppm)	10	2.66	86 b	88 b	70-118	2 b
Selenium	mg/kg (ppm)	5	<1	86	88	64-117	2
Silver	mg/kg (ppm)	10	<1	94	95	73-122	1
Cadmium	mg/kg (ppm)	10	<1	96	99	83-116	3
Barium	mg/kg (ppm)	50	85.7	101 b	102 b	60-141	1 b
Lead	mg/kg (ppm)	50	6.23	91	95	59-148	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	96	78-121
Arsenic	mg/kg (ppm)	10	91	83-113
Selenium	mg/kg (ppm)	5	98	84-115
Silver	mg/kg (ppm)	10	96	81-116
Cadmium	mg/kg (ppm)	10	98	54-114
Barium	mg/kg (ppm)	50	98	85-116
Lead	mg/kg (ppm)	50	91	80-120

Date of Report: 03/28/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 303345-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	<0.1	97	102	62-140	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	95	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

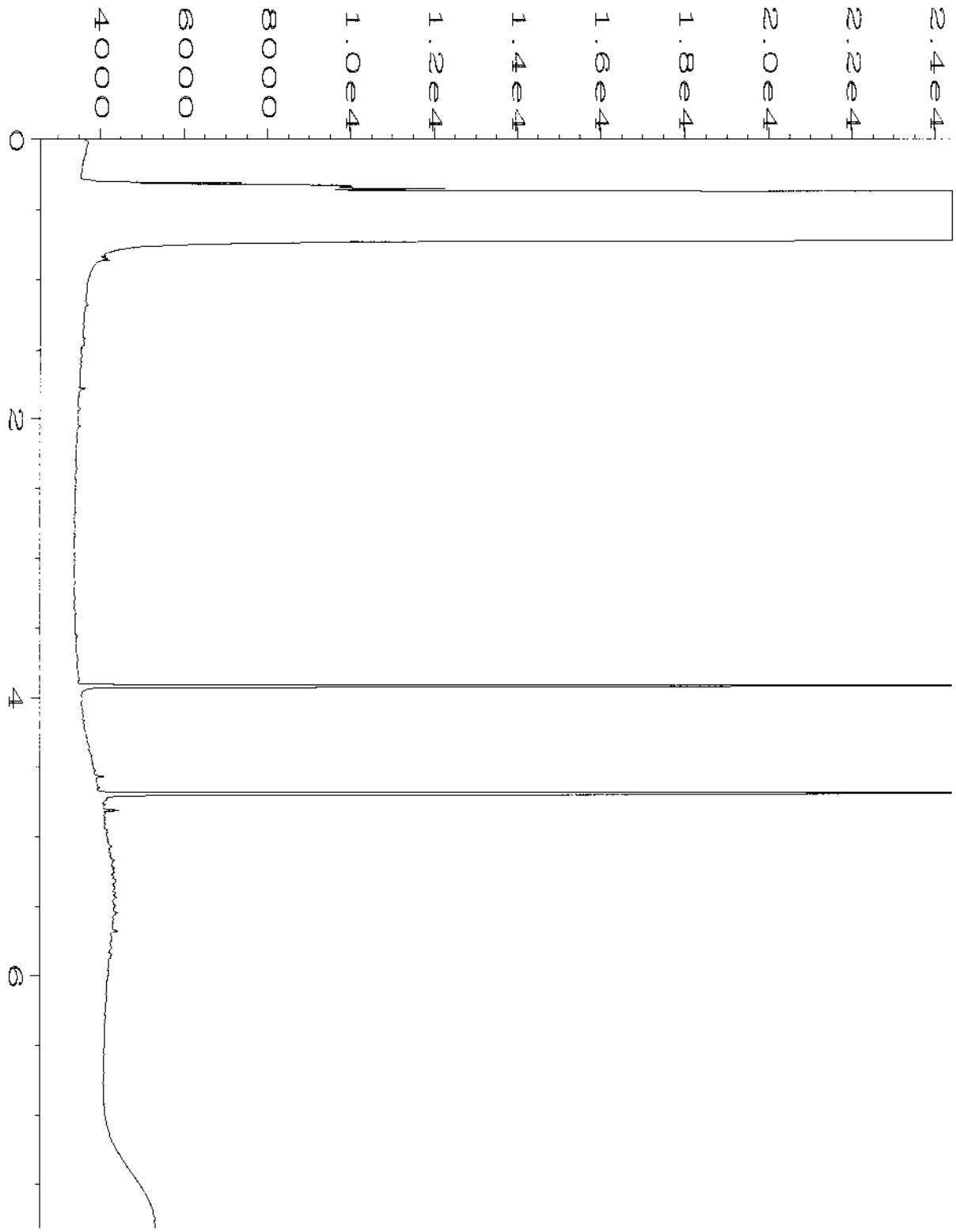
pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



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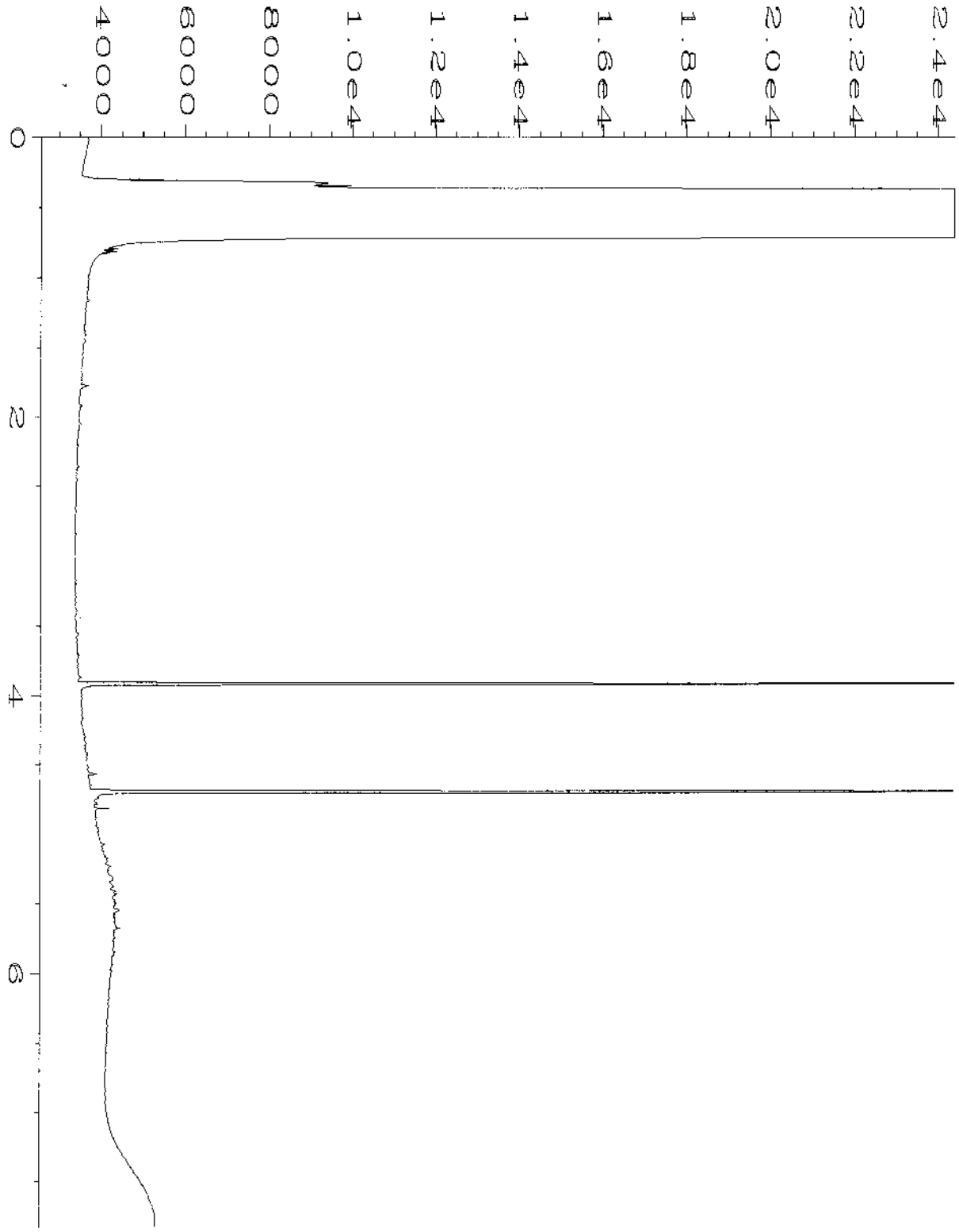
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-01
Run Time Bar Code:
Acquired on : 25 Mar 13 05:25 PM
Report Created on: 26 Mar 13 08:58 AM

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



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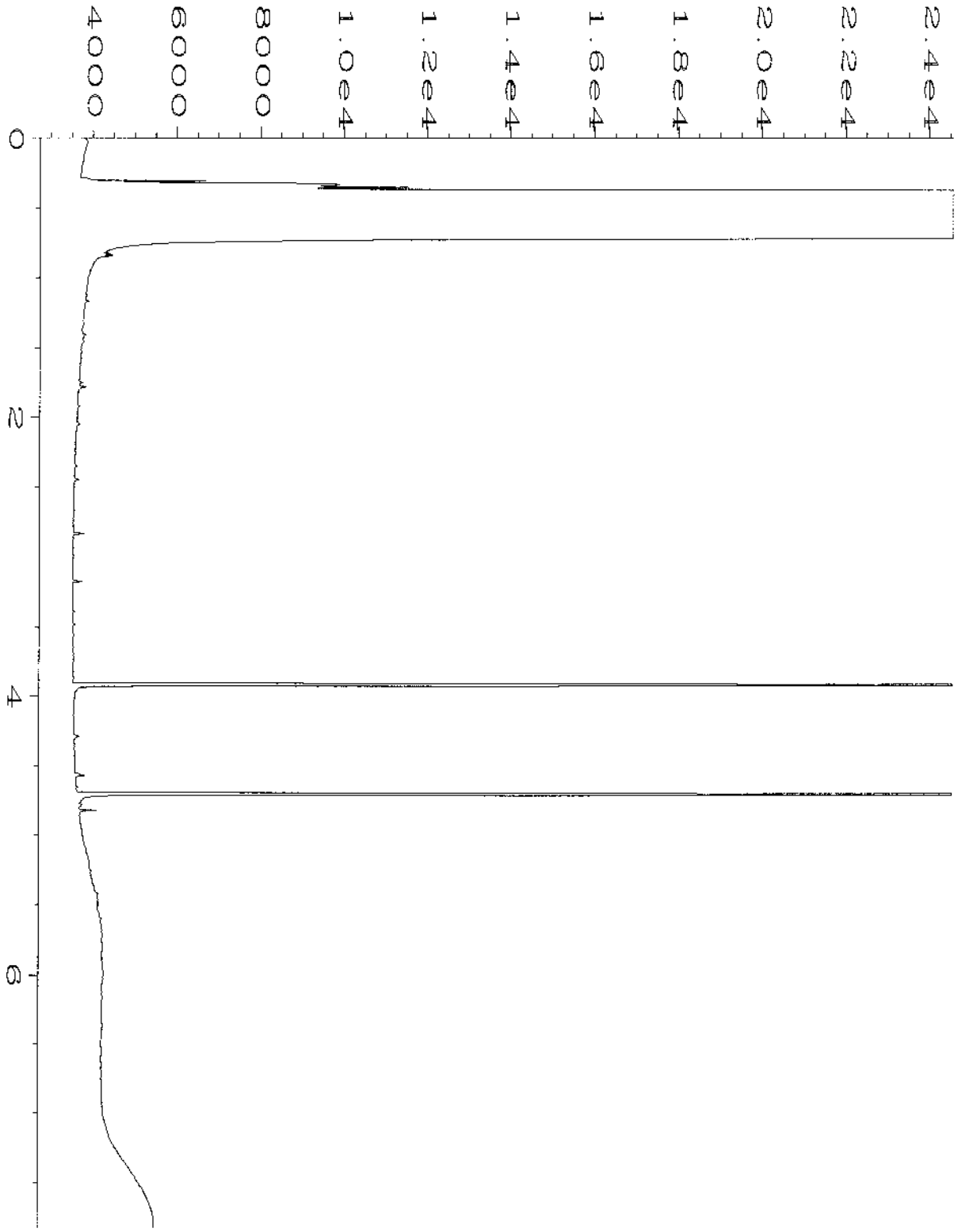
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-02
Run Time Bar Code:
Acquired on : 25 Mar 13 05:38 PM
Report Created on: 26 Mar 13 08:58 AM

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



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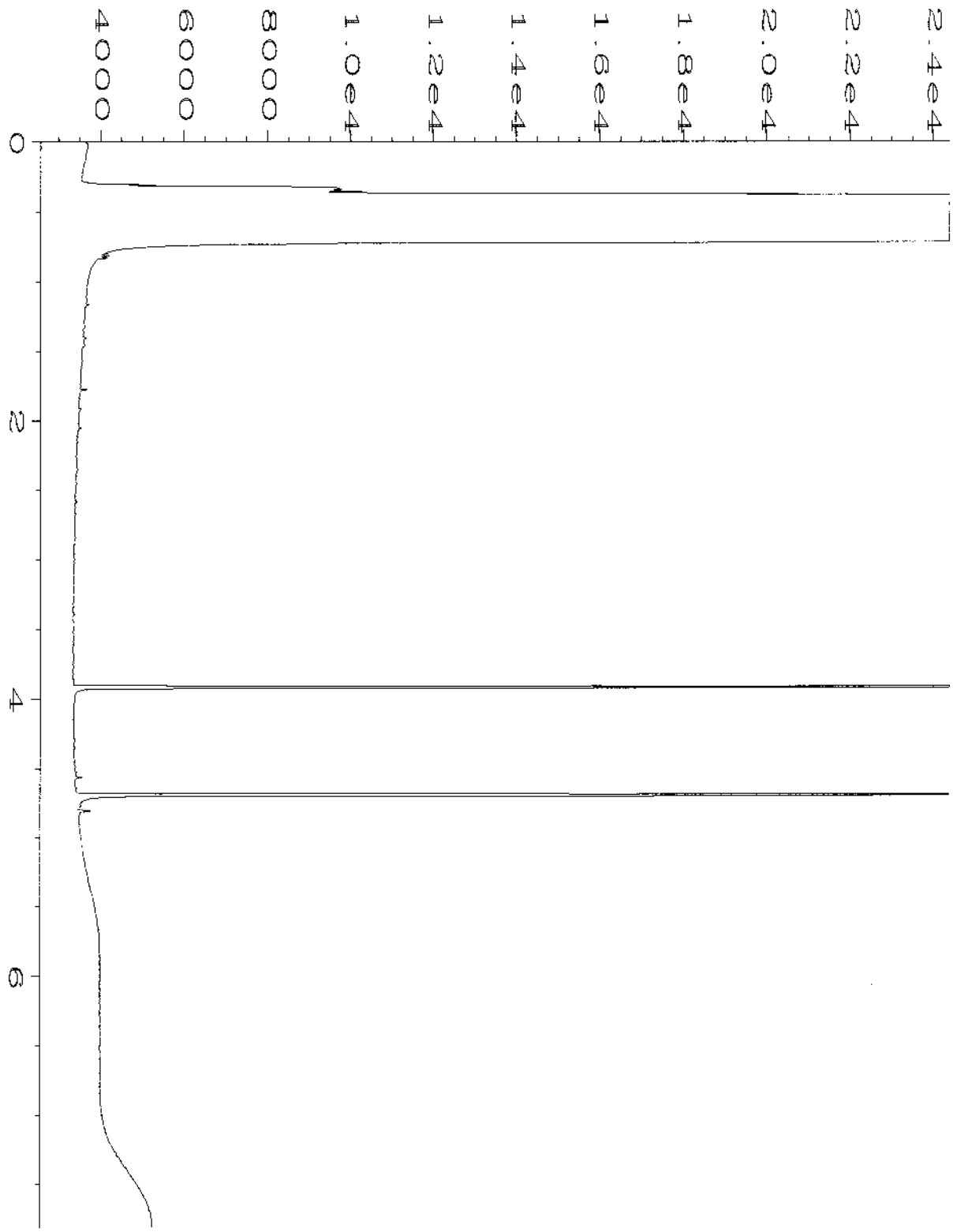
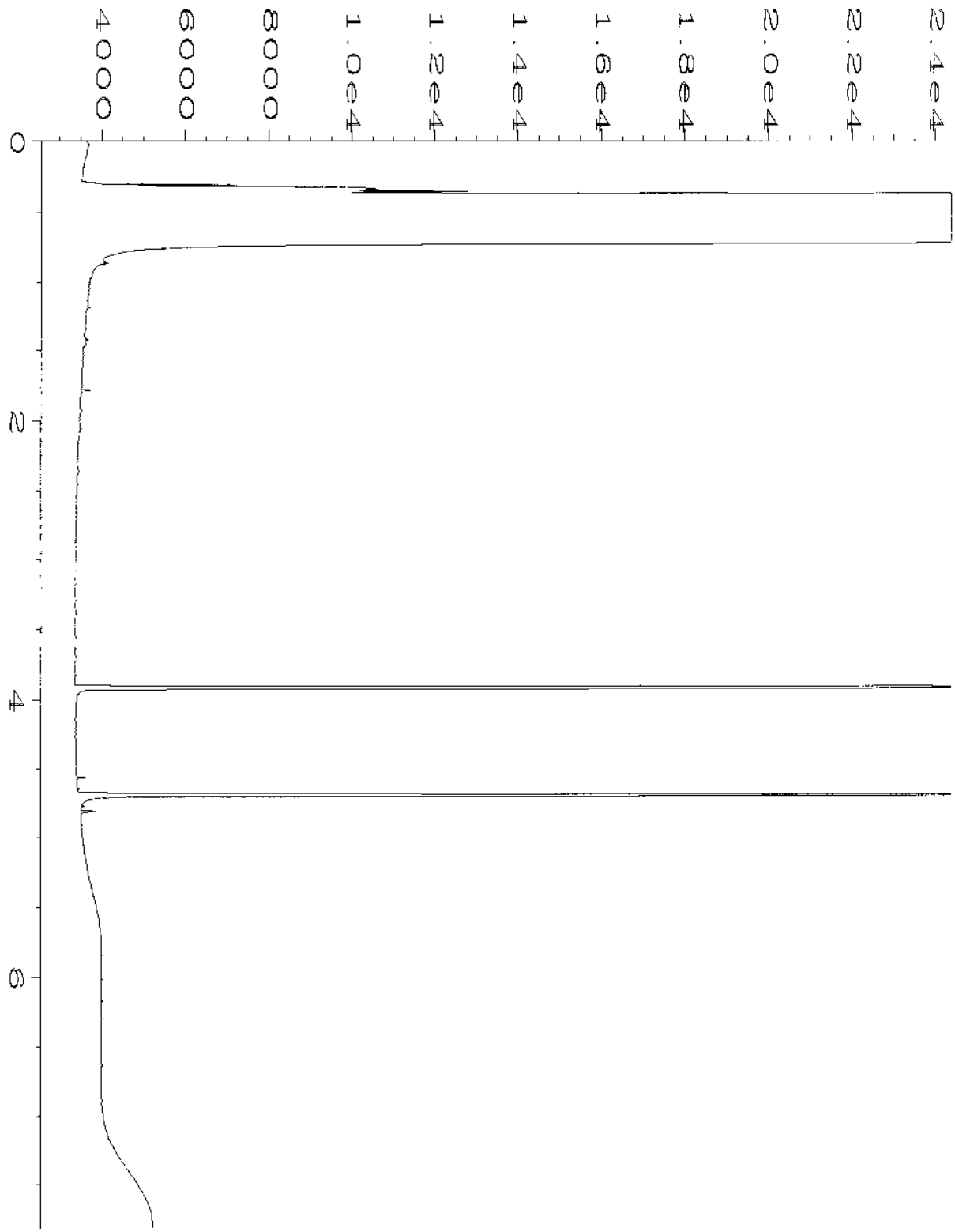
Operator	: mwdl	Page Number	: 1
Instrument	: GC#4	Vial Number	: 6
Sample Name	: 303333-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 26 Mar 13 08:51 AM	Instrument Method	: DX2.MTH
Report Created on	: 26 Mar 13 12:19 PM	Analysis Method	: DX2.MTH



Data File Name : C:\HPCHEM\4\DATA\03-25-13\023F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-04
Run Time Bar Code:
Acquired on : 25 Mar 13 06:04 PM
Report Created on: 26 Mar 13 08:58 AM

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



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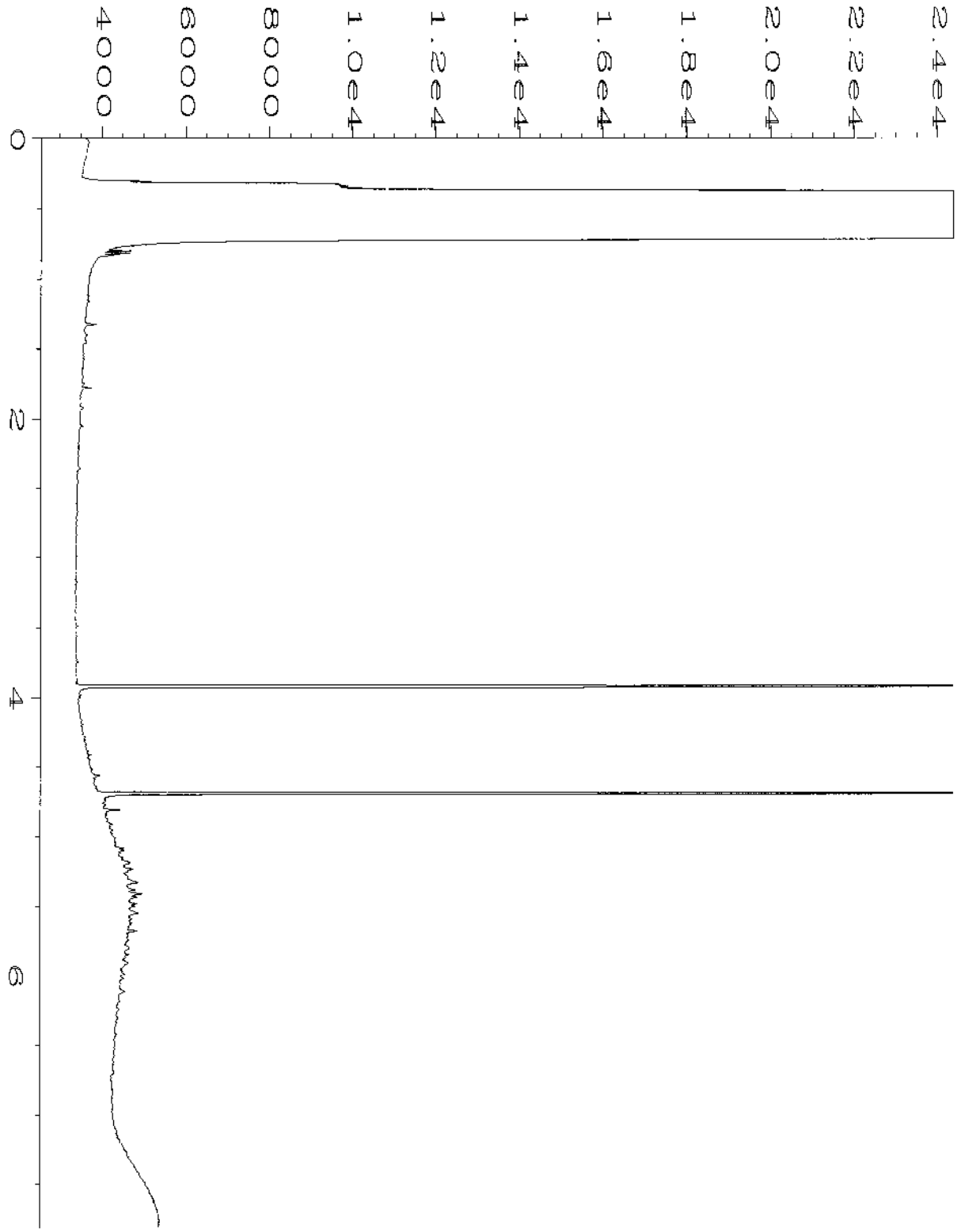
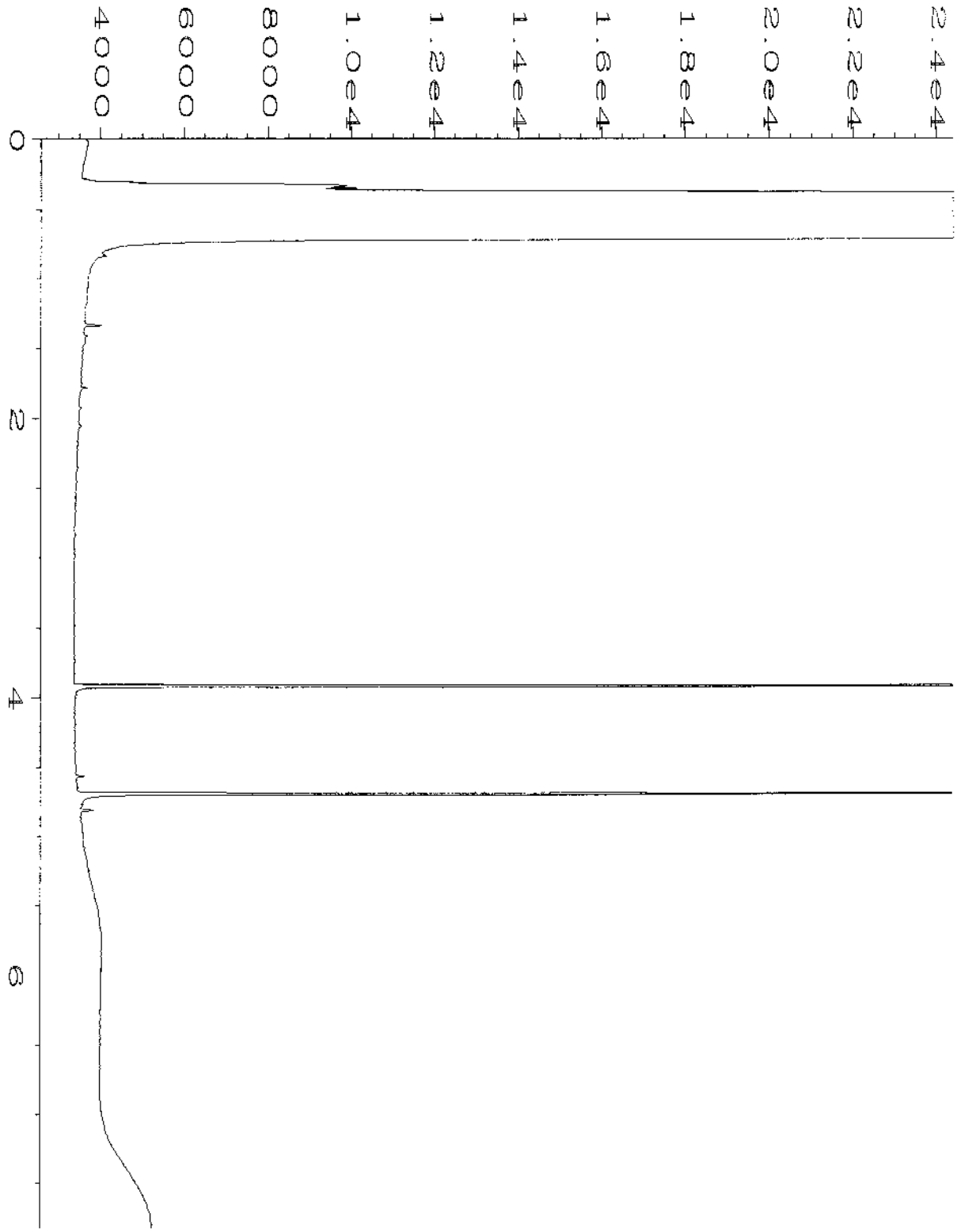
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-05
Run Time Bar Code:
Acquired on : 25 Mar 13 06:17 PM
Report Created on: 26 Mar 13 08:58 AM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



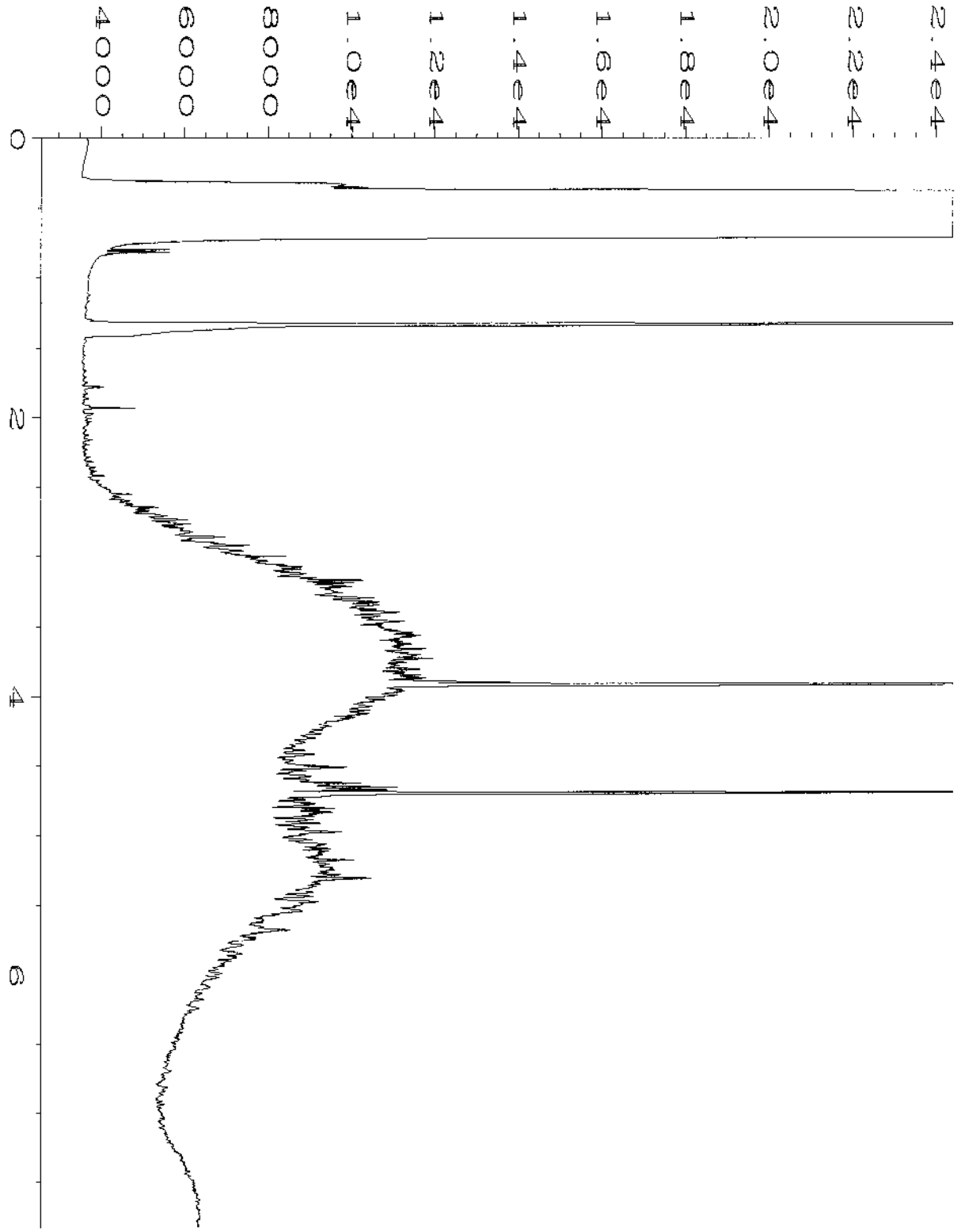
Data File Name : C:\HPCHEM\4\DATA\03-25-13\025F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-06
Run Time Bar Code:
Acquired on : 25 Mar 13 06:30 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



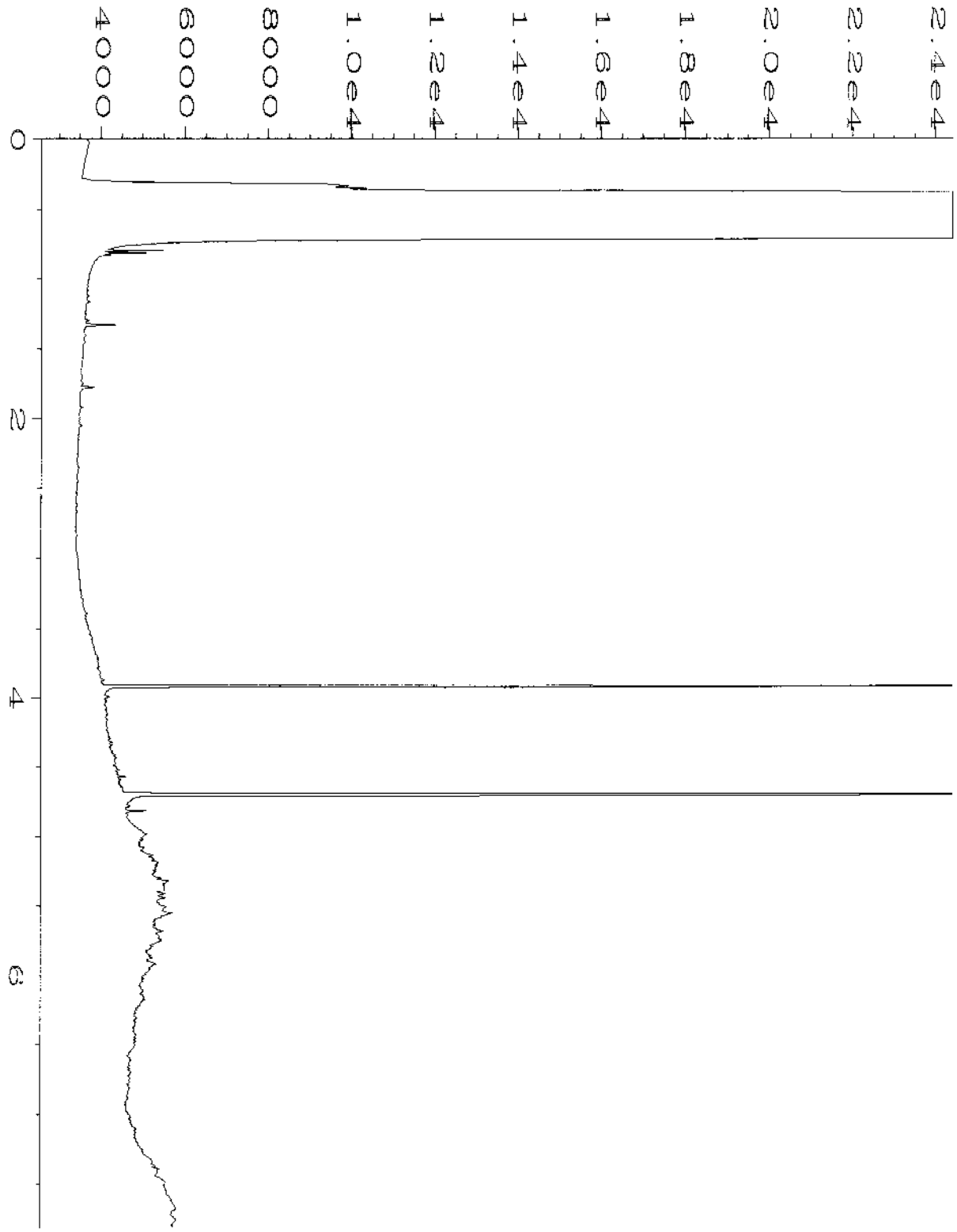
Data File Name : C:\HPCHEM\4\DATA\03-25-13\026F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-07
Run Time Bar Code:
Acquired on : 25 Mar 13 06:43 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



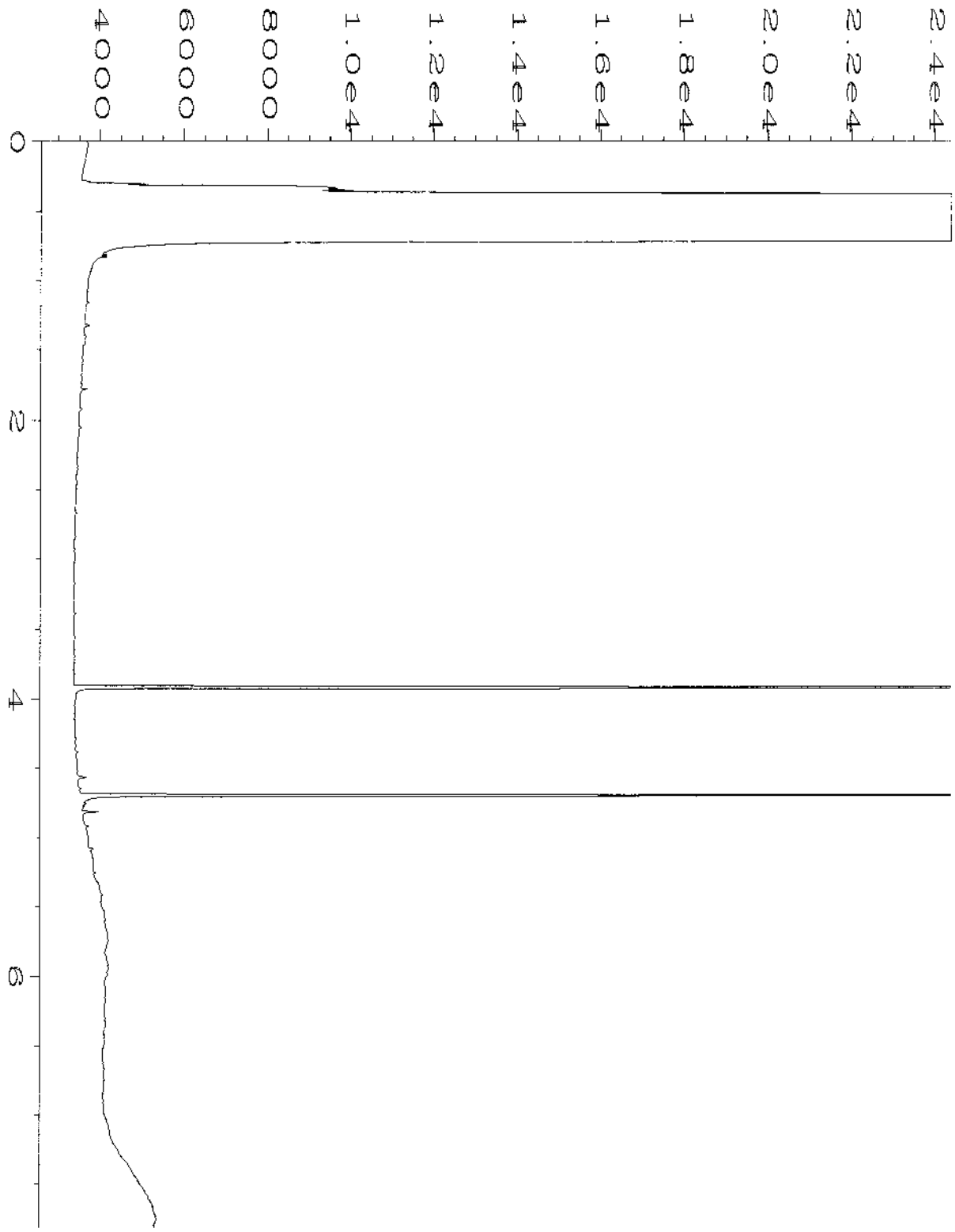
Data File Name : C:\HPCHEM\4\DATA\03-25-13\027F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-08
Run Time Bar Code:
Acquired on : 25 Mar 13 06:56 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



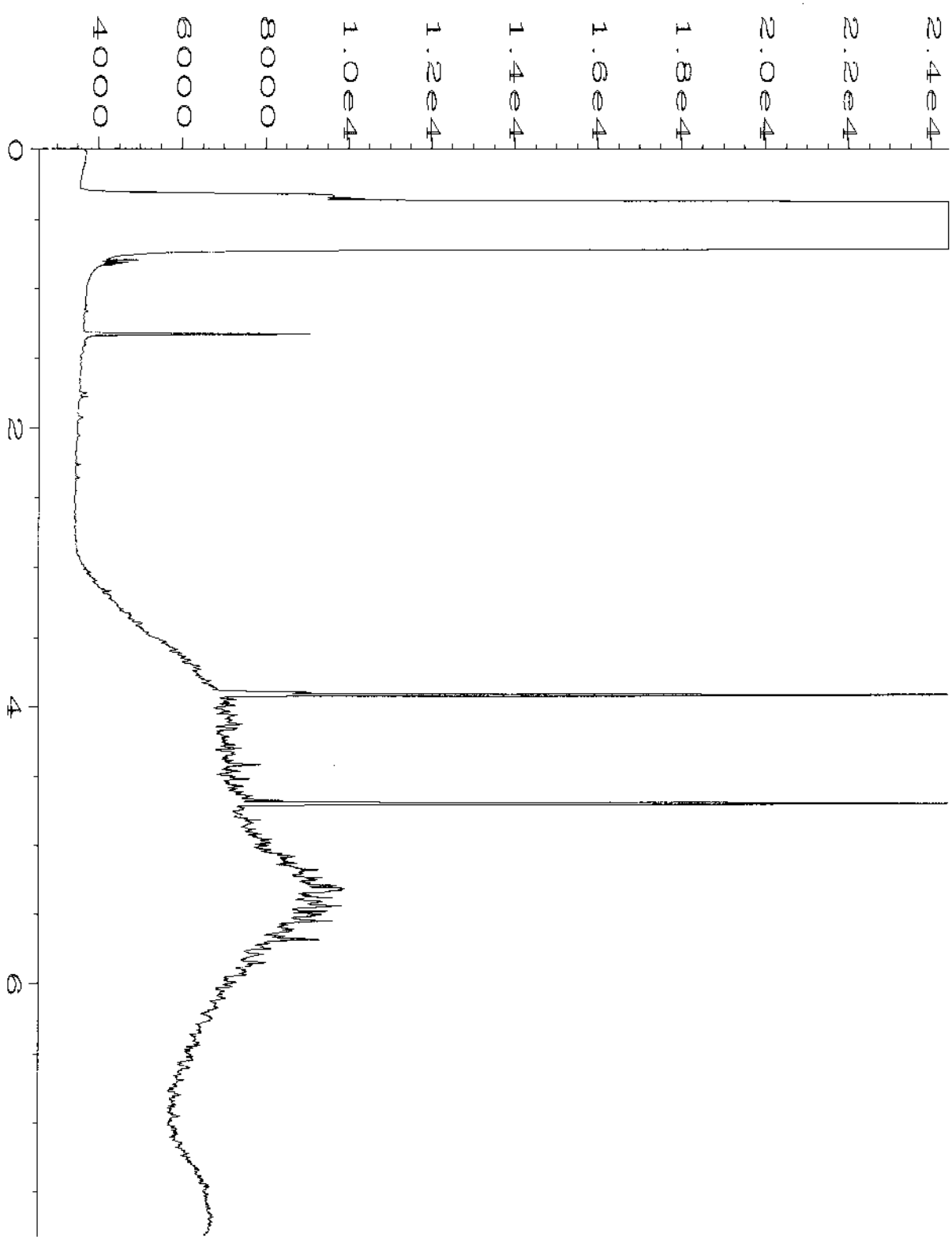
Data File Name : C:\HPCHEM\4\DATA\03-25-13\028F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-09
Run Time Bar Code:
Acquired on : 25 Mar 13 07:09 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



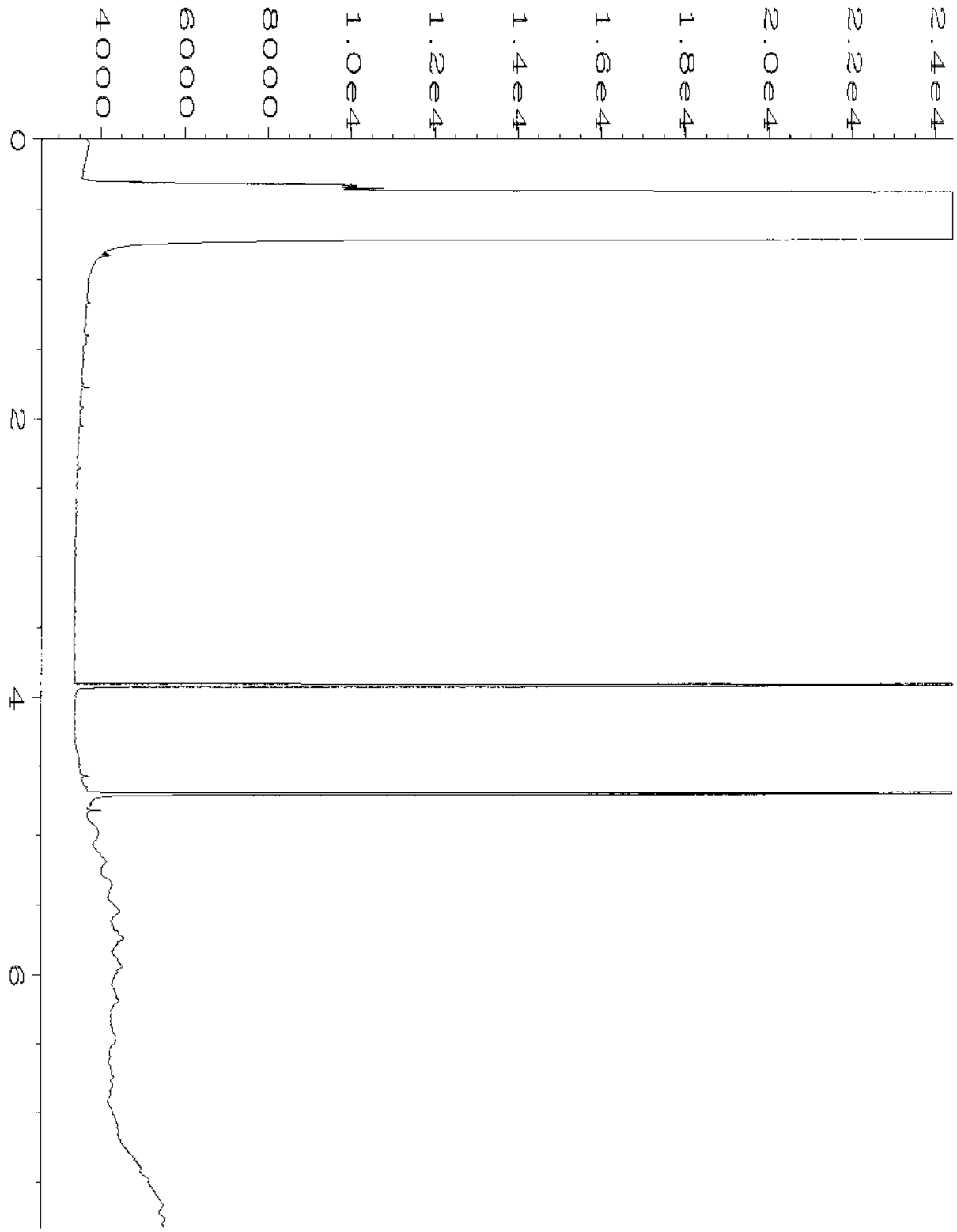
Data File Name : C:\HPCHEM\4\DATA\03-25-13\029F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-10
Run Time Bar Code:
Acquired on : 25 Mar 13 07:22 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



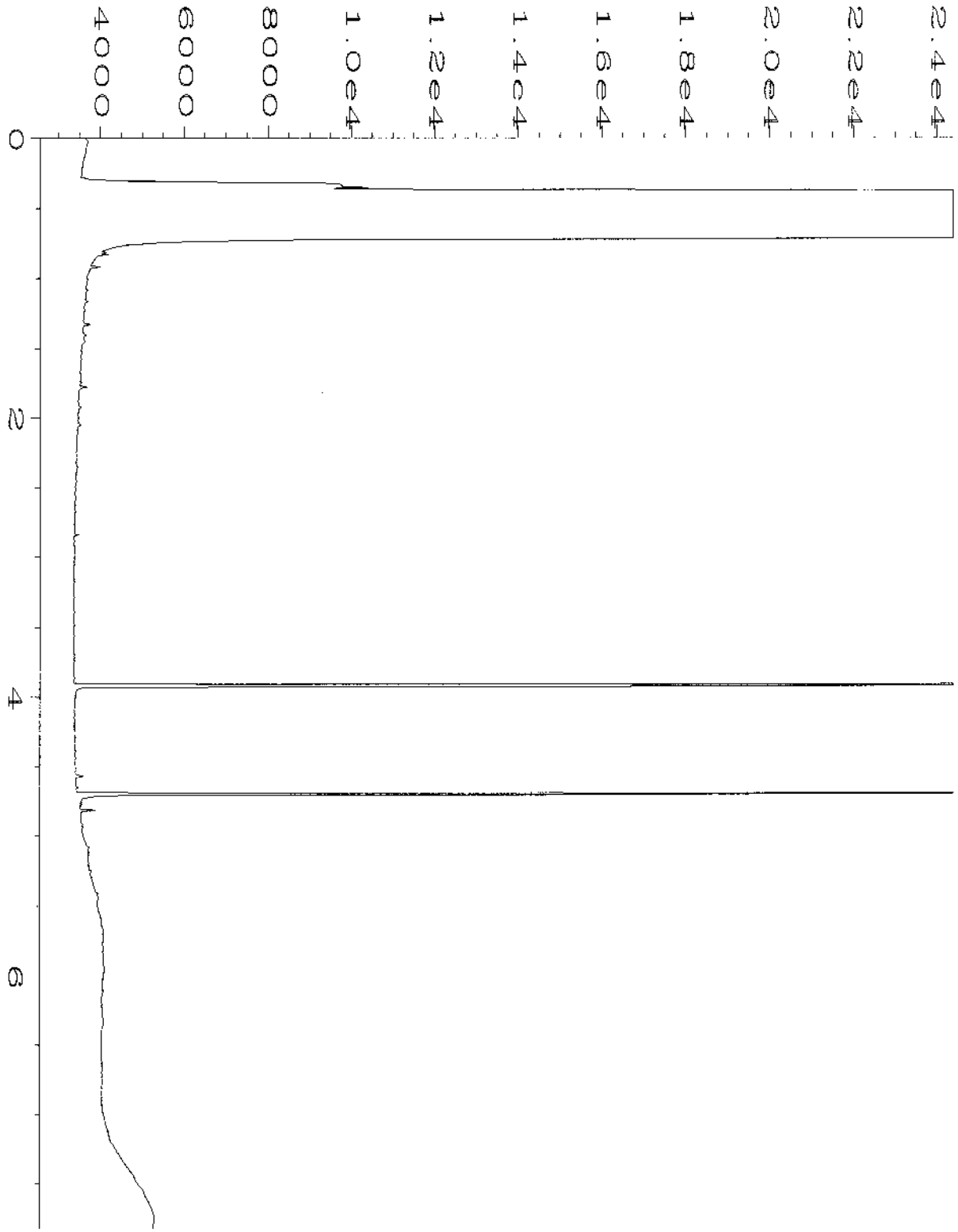
Data File Name : C:\HPCHEM\4\DATA\03-25-13\030F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-11
Run Time Bar Code:
Acquired on : 25 Mar 13 07:36 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



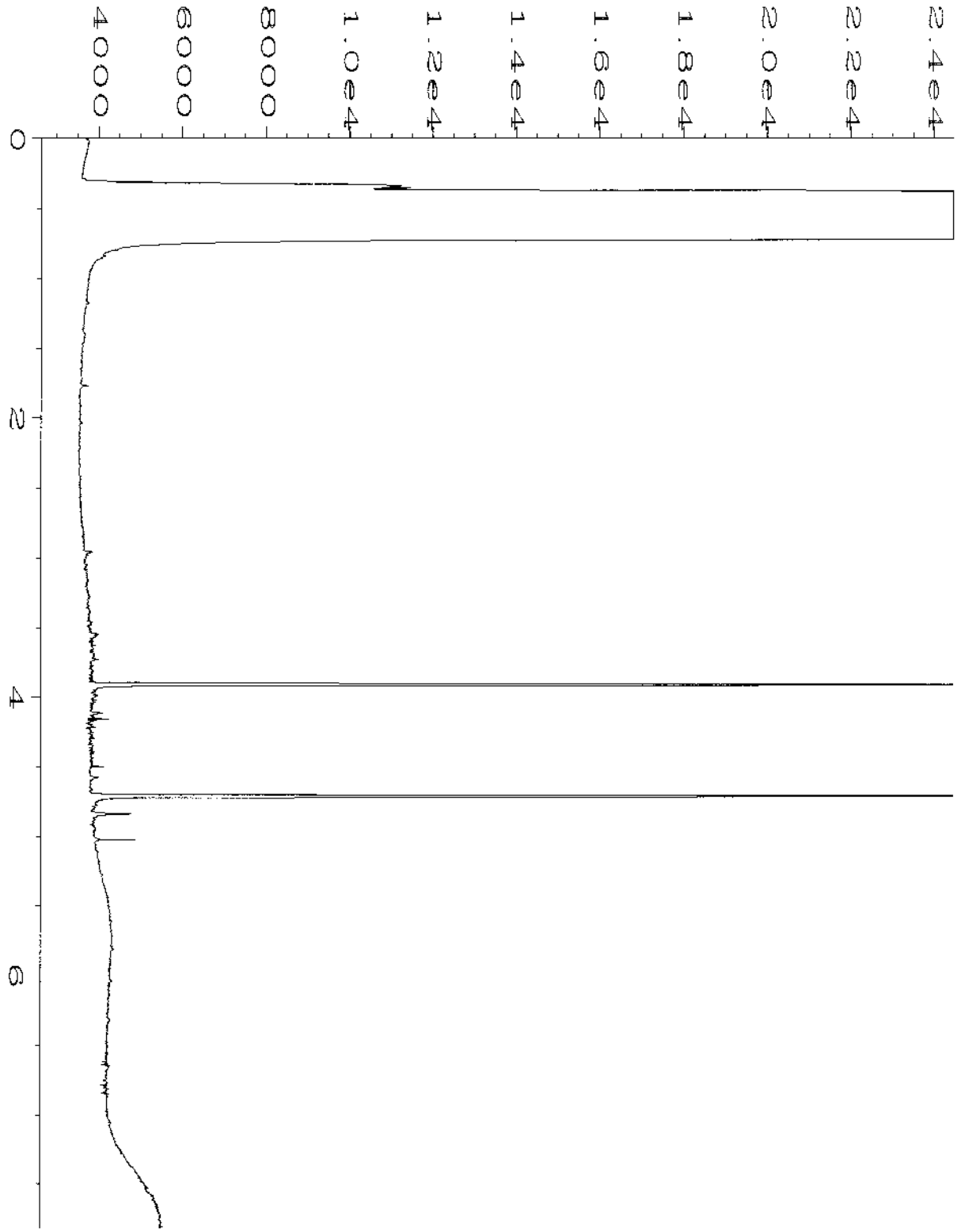
Data File Name : C:\HPCHEM\4\DATA\03-25-13\031F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-12
Run Time Bar Code:
Acquired on : 25 Mar 13 07:49 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 31
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



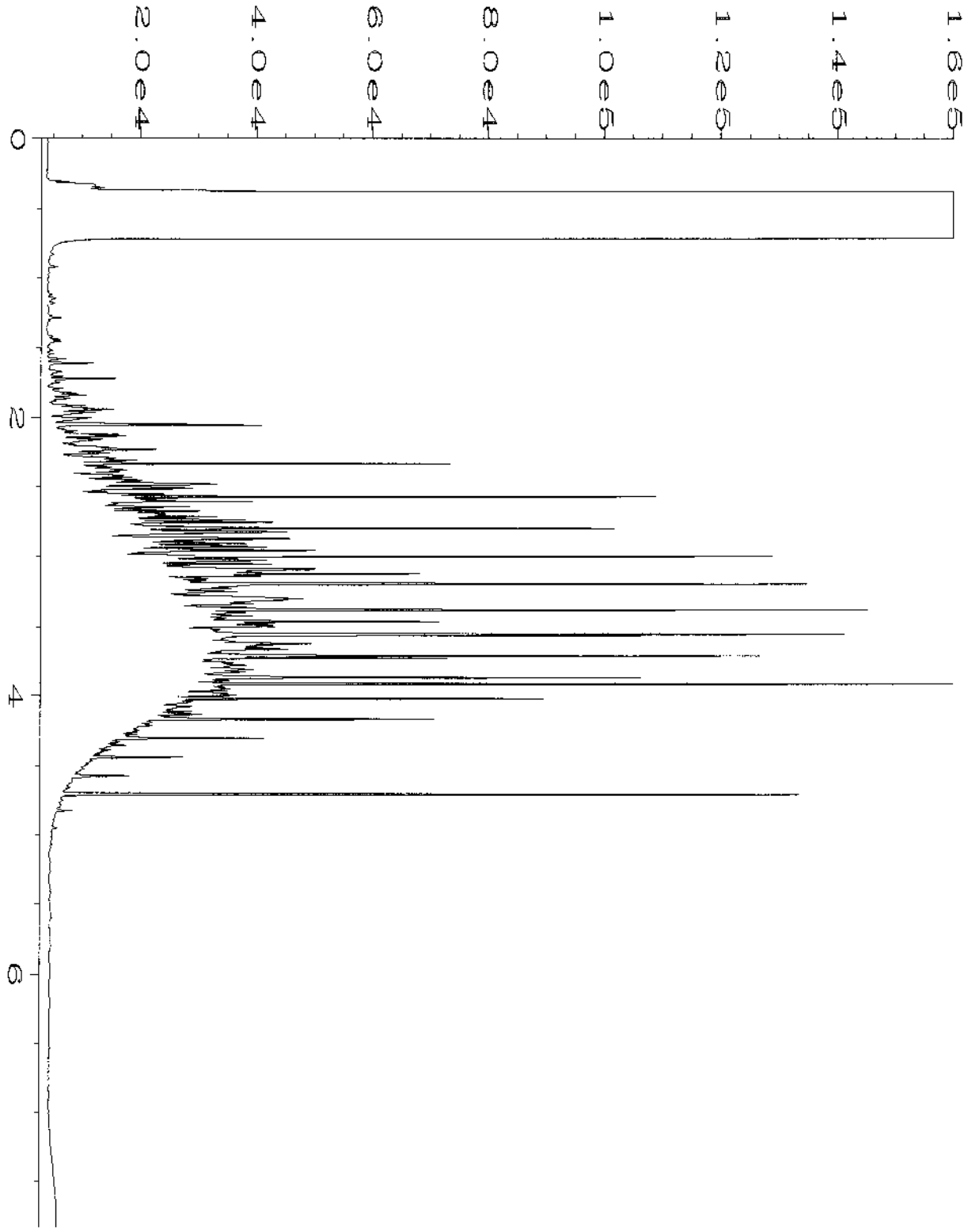
Data File Name : C:\HPCHEM\4\DATA\03-25-13\032F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 303333-13
Run Time Bar Code:
Acquired on : 25 Mar 13 08:02 PM
Report Created on: 26 Mar 13 08:59 AM

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



Data File Name : C:\HPCHEM\4\DATA\03-25-13\016F0501.D
Operator : mwdl
Instrument : GC#4
Sample Name : 03-526 mb
Run Time Bar Code:
Acquired on : 25 Mar 13 04:36 PM
Report Created on: 26 Mar 13 08:58 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 5
Instrument Method: DX2.MTH
Analysis Method : DX2.MTH



Data File Name	: C:\HPCHEM\4\DATA\03-25-13\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC#4	Vial Number	: 3
Sample Name	: 500 Dx 40-42C	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 25 Mar 13 08:39 AM	Instrument Method	: DX2.MTH
Report Created on	: 26 Mar 13 08:58 AM	Analysis Method	: DX2.MTH

303 333

SAMPLE CHAIN OF CUSTODY ME 03/22/13

[redacted] Kevin Dixon

Company Seattle Southern Structures

Address Seattle, WA 98102

City, State, ZIP 2811 Fairview Ave E Suite 200

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature) [redacted]

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS *Mercury encountered on site nearby

Page 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 1 week M
- Rush charges authorized by: [redacted]

SAMPLE DISPOSAL
- ☑ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260B	SVOCs by 8270C	HFS	RCRA 8 Metals					Notes
TANK5 - F03	01	3/22/13	0834	Soil	5	X											
TANK5 - WSW02	09		0835			X											
TANK5 - ESW02	03		0844			X											
TANK3 - ESW05	04		1430			X											F04 F03 on label 402 Time 1330 on containers
TANK3 - SSW05	05		1435			X											Time 1335
TANK3 - F08	06		1440			X											Time 1340
TANK4 - F10	07		1445			X											Time 1345
TANK4 - NSW08	08		1450			X											*
TANK2 - F08	09		1545			X					X						*
TANK2 - NSW06	10	↓	1550	↓	↓	X											*

Samples received at [redacted]

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	David Mendel	SGS	3/22/13	1750
Received by: [signature]	Kurt Johnson	FBD	3/22/13	1750
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

302333

SAMPLE CHAIN OF CUSTODY

ME 03/22/13 VS3/D03

Page # 2 of 2

Send Report To: GEO

Company:

Address:

City, State, ZIP:

Phone #: Fax #:

SAMPLERS (signature):

PROJECT NAME/NO.: 700 Dexter/0297

PO #:

REMARKS:

TURNAROUND TIME
- ☐ Standard ☐ Weekly
- ☒ RUSH (5 d.b.h.)

Rush charges authorized by: DAD

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260B	SVOCs by 8270C	HFS	RCRA 8 Metals Cr(VI) only	Notes
TANK 1-FOB	1	3/20/13	1605	Soil	5	X							
TANK 1-SSW06	2		1610			X							
TANK 1-WSW06	3		1615			X							

Samples received at 1 °C

3/20/13

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/20/13	1750
Received by:	Kurt Johnson	FJB	3/22/13	1750
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

APPENDIX F
LABORATORY ANALYTICAL REPORTS

Soil/Sludge

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 6, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 27, 2011 from the SOU_0774_20110427, F&BI 104348 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0506R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 27, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774_20110427, F&BI 104348 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
104348-01	Cleanout 1 S-1
104348-02	Cleanout 1 S-2
104348-03	Sump 2
104348-04	Sump 4

The 8260C chloroform laboratory control sample failed the acceptance criteria. The data were flagged accordingly.

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for chloroethane. The analytes were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Cleanout 1 S-1/S-2	Client:	SoundEarth Strategies
Date Received:	04/27/11	Project:	SOU_0774_20110427, F&BI 104348
Date Extracted:	04/29/11	Lab ID:	104348-01/02
Date Analyzed:	04/30/11	Data File:	042943.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	42	158
Toluene-d8	98	42	159
4-Bromofluorobenzene	97	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	5.5
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05 jl	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump 2	Client:	SoundEarth Strategies
Date Received:	04/27/11	Project:	SOU_0774_20110427, F&BI 104348
Date Extracted:	04/29/11	Lab ID:	104348-03
Date Analyzed:	04/30/11	Data File:	042944.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	42	158
Toluene-d8	97	42	159
4-Bromofluorobenzene	99	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	15
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.66
Acetone	2.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	2.4
Methylene chloride	<0.5	o-Xylene	0.90
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	0.077
cis-1,2-Dichloroethene	0.10	Bromobenzene	<0.05
Chloroform	<0.05 jl	1,3,5-Trimethylbenzene	0.19
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	0.56
Trichloroethene	0.11	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	0.075
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	0.90	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	12	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	0.20
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump 4	Client:	SoundEarth Strategies
Date Received:	04/27/11	Project:	SOU_0774_20110427, F&BI 104348
Date Extracted:	04/29/11	Lab ID:	104348-04 1/10000
Date Analyzed:	05/04/11	Data File:	050405.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	42	158
Toluene-d8	101	42	159
4-Bromofluorobenzene	105	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<5,000 ca	1,3-Dichloropropane	<500
Chloromethane	<5,000	Tetrachloroethene	85,000
Vinyl chloride	<500	Dibromochloromethane	<500
Bromomethane	<5,000	1,2-Dibromoethane (EDB)	<500
Chloroethane	<5,000 ca	Chlorobenzene	<500
Trichlorofluoromethane	<5,000	Ethylbenzene	<500
Acetone	<5,000	1,1,1,2-Tetrachloroethane	<500
1,1-Dichloroethene	<500	m,p-Xylene	<1,000
Methylene chloride	<5,000	o-Xylene	<500
Methyl t-butyl ether (MTBE)	<500	Styrene	<500
trans-1,2-Dichloroethene	<500	Isopropylbenzene	<500
1,1-Dichloroethane	<500	Bromoform	<500
2,2-Dichloropropane	<500	n-Propylbenzene	<500
cis-1,2-Dichloroethene	<500	Bromobenzene	<500
Chloroform	<500 jl	1,3,5-Trimethylbenzene	<500
2-Butanone (MEK)	<5,000	1,1,2,2-Tetrachloroethane	<500
1,2-Dichloroethane (EDC)	<500	1,2,3-Trichloropropane	<500
1,1,1-Trichloroethane	<500	2-Chlorotoluene	<500
1,1-Dichloropropene	<500	4-Chlorotoluene	<500
Carbon tetrachloride	<500	tert-Butylbenzene	<500
Benzene	<300	1,2,4-Trimethylbenzene	<500
Trichloroethene	<300	sec-Butylbenzene	<500
1,2-Dichloropropane	<500	p-Isopropyltoluene	<500
Bromodichloromethane	<500	1,3-Dichlorobenzene	<500
Dibromomethane	<500	1,4-Dichlorobenzene	<500
4-Methyl-2-pentanone	<5,000	1,2-Dichlorobenzene	<500
cis-1,3-Dichloropropene	<500	1,2-Dibromo-3-chloropropane	<5,000
Toluene	<500	1,2,4-Trichlorobenzene	<2,500
trans-1,3-Dichloropropene	<500	Hexachlorobutadiene	<2,500
1,1,2-Trichloroethane	<500	Naphthalene	<500
2-Hexanone	<5,000	1,2,3-Trichlorobenzene	<2,500

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump 4	Client:	SoundEarth Strategies
Date Received:	04/27/11	Project:	SOU_0774_20110427, F&BI 104348
Date Extracted:	04/29/11	Lab ID:	104348-04 1/100
Date Analyzed:	04/30/11	Data File:	042945.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	42	158
Toluene-d8	97	42	159
4-Bromofluorobenzene	99	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<50	1,3-Dichloropropane	<5
Chloromethane	<50	Tetrachloroethene	32,000 ve
Vinyl chloride	<5	Dibromochloromethane	<5
Bromomethane	<50	1,2-Dibromoethane (EDB)	<5
Chloroethane	<50	Chlorobenzene	<5
Trichlorofluoromethane	<50	Ethylbenzene	<5
Acetone	<50	1,1,1,2-Tetrachloroethane	<5
1,1-Dichloroethene	<5	m,p-Xylene	17 j
Methylene chloride	<50	o-Xylene	<5
Methyl t-butyl ether (MTBE)	<5	Styrene	<5
trans-1,2-Dichloroethene	<5	Isopropylbenzene	<5
1,1-Dichloroethane	<5	Bromoform	<5
2,2-Dichloropropane	<5	n-Propylbenzene	<5
cis-1,2-Dichloroethene	410	Bromobenzene	<5
Chloroform	<5 jl	1,3,5-Trimethylbenzene	<5
2-Butanone (MEK)	<50	1,1,2,2-Tetrachloroethane	<5
1,2-Dichloroethane (EDC)	<5	1,2,3-Trichloropropane	<5
1,1,1-Trichloroethane	<5	2-Chlorotoluene	<5
1,1-Dichloropropene	<5	4-Chlorotoluene	<5
Carbon tetrachloride	<5	tert-Butylbenzene	<5
Benzene	<3	1,2,4-Trimethylbenzene	10 j
Trichloroethene	520	sec-Butylbenzene	<5
1,2-Dichloropropane	<5	p-Isopropyltoluene	<5
Bromodichloromethane	<5	1,3-Dichlorobenzene	<5
Dibromomethane	<5	1,4-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dichlorobenzene	<5
cis-1,3-Dichloropropene	<5	1,2-Dibromo-3-chloropropane	<50
Toluene	35	1,2,4-Trichlorobenzene	<25
trans-1,3-Dichloropropene	<5	Hexachlorobutadiene	<25
1,1,2-Trichloroethane	<5	Naphthalene	<5
2-Hexanone	<50	1,2,3-Trichlorobenzene	<25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774_20110427, F&BI 104348
Date Extracted:	04/29/11	Lab ID:	01-661 mb
Date Analyzed:	04/29/11	Data File:	042909.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	42	158
Toluene-d8	102	42	159
4-Bromofluorobenzene	101	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05 jl	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Date of Report: 05/06/11
Date Received: 04/27/11
Project: SOU_0774_20110427, F&BI 104348

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 104347-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	15	10-171
Chloromethane	mg/kg (ppm)	2.5	<0.5	38	10-162
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	42	10-166
Bromomethane	mg/kg (ppm)	2.5	<0.5	45	10-165
Chloroethane	mg/kg (ppm)	2.5	<0.5	47	10-161
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	42	10-168
Acetone	mg/kg (ppm)	12.5	<0.5	76	20-155
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	45	10-168
Methylene chloride	mg/kg (ppm)	2.5	<0.5	52	21-149
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	63	39-139
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	55	20-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	62	30-114
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	58	17-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	36-111
Chloroform	mg/kg (ppm)	2.5	<0.05	62	39-114
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	78	24-153
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	57	38-116
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	63	27-119
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	57	26-118
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.05	66	22-123
Benzene	mg/kg (ppm)	2.5	<0.03	63	33-113
Trichloroethene	mg/kg (ppm)	2.5	<0.03	58	36-113
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	71	40-113
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	69	43-118
Dibromomethane	mg/kg (ppm)	2.5	<0.05	67	43-113
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.5	82	34-154
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	70	43-117
Toluene	mg/kg (ppm)	2.5	0.1	60	38-139
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	69	44-140
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	110	38-146
2-Hexanone	mg/kg (ppm)	12.5	<0.5	74	37-150
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	70	47-133
Tetrachloroethene	mg/kg (ppm)	2.5	0.7	33 b	29-117
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	75	46-116
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	71	44-139
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	62	41-114
Ethylbenzene	mg/kg (ppm)	2.5	0.1	59	38-120
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	74	43-120
m,p-Xylene	mg/kg (ppm)	5	0.6	57	37-122
o-Xylene	mg/kg (ppm)	2.5	0.4	57	39-121
Styrene	mg/kg (ppm)	2.5	<0.05	64	43-121
Isopropylbenzene	mg/kg (ppm)	2.5	0.10	57	38-126
Bromoform	mg/kg (ppm)	2.5	<0.05	77	44-120
n-Propylbenzene	mg/kg (ppm)	2.5	0.2	56	34-127
Bromobenzene	mg/kg (ppm)	2.5	<0.05	64	42-115
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	0.4	56	34-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	82	41-113
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	69	45-134
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	61	40-120
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	59	41-119
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	56	37-125
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	1.4	56 b	34-129
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	58	35-127
p-Isopropyltoluene	mg/kg (ppm)	2.5	0.2	55	35-128
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	59	39-115
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	59	39-114
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	61	43-115
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.5	72	30-147
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	55	37-121
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.25	55	29-121
Naphthalene	mg/kg (ppm)	2.5	0.5	63	12-168
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	59	11-172

Date of Report: 05/06/11
Date Received: 04/27/11
Project: SOU_0774_20110427, F&BI 104348

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	30	35	10-142	15
Chloromethane	mg/kg (ppm)	2.5	54	61	25-121	12
Vinyl chloride	mg/kg (ppm)	2.5	60	67	29-135	11
Bromomethane	mg/kg (ppm)	2.5	54	65	33-123	18
Chloroethane	mg/kg (ppm)	2.5	60	77	10-281	25 vo
Trichlorofluoromethane	mg/kg (ppm)	2.5	52	63	13-151	19
Acetone	mg/kg (ppm)	12.5	70	77	10-151	10
1,1-Dichloroethene	mg/kg (ppm)	2.5	56	64	22-151	13
Methylene chloride	mg/kg (ppm)	2.5	61	71	42-144	15
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	71	82	62-124	14
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	66	78	60-125	17
1,1-Dichloroethane	mg/kg (ppm)	2.5	71	81	66-123	13
2,2-Dichloropropane	mg/kg (ppm)	2.5	76	88	53-134	15
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	73	86	72-118	16
Chloroform	mg/kg (ppm)	2.5	70 vo	78	71-123	11
2-Butanone (MEK)	mg/kg (ppm)	12.5	87	94	10-150	8
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	66	70	60-124	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	76	87	68-128	13
1,1-Dichloropropene	mg/kg (ppm)	2.5	75	81	71-123	8
Carbon tetrachloride	mg/kg (ppm)	2.5	85	94	64-136	10
Benzene	mg/kg (ppm)	2.5	77	84	69-122	9
Trichloroethene	mg/kg (ppm)	2.5	74	80	71-122	8
1,2-Dichloropropane	mg/kg (ppm)	2.5	83	90	71-120	8
Bromodichloromethane	mg/kg (ppm)	2.5	80	84	68-140	5
Dibromomethane	mg/kg (ppm)	2.5	75	82	72-121	9
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	87	96	10-150	10
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	85	91	74-126	7
Toluene	mg/kg (ppm)	2.5	80	85	72-122	6
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	86	92	70-131	7
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	83	88	70-122	6
2-Hexanone	mg/kg (ppm)	12.5	84	88	10-152	5
1,3-Dichloropropane	mg/kg (ppm)	2.5	82	86	72-121	5
Tetrachloroethene	mg/kg (ppm)	2.5	81	84	69-125	4
Dibromochloromethane	mg/kg (ppm)	2.5	89	90	68-130	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	86	91	72-121	6
Chlorobenzene	mg/kg (ppm)	2.5	76	82	69-125	8
Ethylbenzene	mg/kg (ppm)	2.5	79	83	72-130	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	86	92	69-133	7
m,p-Xylene	mg/kg (ppm)	5	79	85	72-131	7
o-Xylene	mg/kg (ppm)	2.5	79	88	71-129	11
Styrene	mg/kg (ppm)	2.5	79	87	73-132	10
Isopropylbenzene	mg/kg (ppm)	2.5	76	83	73-134	9
Bromoform	mg/kg (ppm)	2.5	94	96	68-129	2
n-Propylbenzene	mg/kg (ppm)	2.5	83	87	72-136	5
Bromobenzene	mg/kg (ppm)	2.5	82	85	73-125	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	79	83	72-132	5
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	87	92	67-116	6
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	81	85	67-123	5
2-Chlorotoluene	mg/kg (ppm)	2.5	80	84	72-130	5
4-Chlorotoluene	mg/kg (ppm)	2.5	81	84	73-129	4
tert-Butylbenzene	mg/kg (ppm)	2.5	80	86	71-130	7
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	79	85	70-132	7
sec-Butylbenzene	mg/kg (ppm)	2.5	80	87	71-134	8
p-Isopropyltoluene	mg/kg (ppm)	2.5	80	85	71-135	6
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	78	84	70-124	7
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	76	82	68-126	8
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	76	84	71-125	10
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	86	91	63-122	6
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	78	86	69-132	10
Hexachlorobutadiene	mg/kg (ppm)	2.5	75	83	68-121	10
Naphthalene	mg/kg (ppm)	2.5	78	88	60-125	12
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	77	88	68-121	13

z

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

104348

SAMPLE CHAIN OF CUSTODY ME 04-27-11 VSI/BTI

Send Report To Chuck Cacek

Company SoundEarth

Address 2500 Fairview Ave. E. Ste. 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306 1900 Fax # 206 326 1807

SAMPLERS (signature) C.C.C

PROJECT NAME/NO. 0774 ALSCO Property

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 5 day

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260C	SVOC's by 8270	RCRA-8 Metals			Notes
Clean #1 (S-1)			01A-B	4/26/11	0900	Soil/Slag	2				X					A Composite S-1 & S-2
Clean #1 S-2			02A-B	↓	0910	↓	2				X					↓ ↓
Soil #2			03A-C	↓	1230	↓	3				X					262 ppm
Soil #4			04A-C	↓	1330	↓	3				X					1004 ppm

ANALYSES REQUESTED

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: C.C.C	Charles Cacek	SoundEarth	4/27/11	
Received by:			4/27/11	11:25
Relinquished by:				
Received by:	Nhan Phan	FEBI	4/27/11	1255

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 10, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on May 3, 2011 from the SOU_0774_20110503, F&BI 105028 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0510R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774_20110503, F&BI 105028 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
105028-01	Clean out 2
105028-02	Sump 3

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for chloroethane. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Clean out 2	Client:	SoundEarth Strategies
Date Received:	05/03/11	Project:	SOU_0774_20110503, F&BI 105028
Date Extracted:	05/06/11	Lab ID:	105028-01
Date Analyzed:	05/09/11	Data File:	050913.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	42	158
Toluene-d8	105	42	159
4-Bromofluorobenzene	90	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	2.6
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	1.7
Acetone	13	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	8.0
Methylene chloride	<0.5	o-Xylene	3.9
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	0.10
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	0.27
cis-1,2-Dichloroethene	1.0	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	0.68
2-Butanone (MEK)	1.6	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	0.38	1,2,4-Trimethylbenzene	2.0
Trichloroethene	0.14	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	6.0	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	0.50
2-Hexanone	1.9	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump 3	Client:	SoundEarth Strategies
Date Received:	05/03/11	Project:	SOU_0774_20110503, F&BI 105028
Date Extracted:	05/06/11	Lab ID:	105028-02
Date Analyzed:	05/09/11	Data File:	050914.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	42	158
Toluene-d8	102	42	159
4-Bromofluorobenzene	91	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	0.12
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	0.075
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	0.074	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	0.058
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774_20110503, F&BI 105028
Date Extracted:	05/06/11	Lab ID:	01-801 mb
Date Analyzed:	05/06/11	Data File:	050614.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	42	158
Toluene-d8	105	42	159
4-Bromofluorobenzene	105	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Date of Report: 05/10/11
Date Received: 05/03/11
Project: SOU_0774_20110503, F&BI 105028

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	39	45	10-142	14
Chloromethane	mg/kg (ppm)	2.5	65	68	25-121	5
Vinyl chloride	mg/kg (ppm)	2.5	59	65	29-135	10
Bromomethane	mg/kg (ppm)	2.5	63	75	33-123	17
Chloroethane	mg/kg (ppm)	2.5	61	75	10-281	21 vo
Trichlorofluoromethane	mg/kg (ppm)	2.5	79	91	13-151	14
Acetone	mg/kg (ppm)	12.5	87	92	10-151	6
1,1-Dichloroethene	mg/kg (ppm)	2.5	76	87	22-151	13
Methylene chloride	mg/kg (ppm)	2.5	73	83	42-144	13
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	85	92	62-124	8
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	105	60-125	14
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	97	66-123	11
2,2-Dichloropropane	mg/kg (ppm)	2.5	92	99	53-134	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	97	72-118	9
Chloroform	mg/kg (ppm)	2.5	90	100	71-123	11
2-Butanone (MEK)	mg/kg (ppm)	12.5	100	106	10-150	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	90	97	60-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	91	101	68-128	10
1,1-Dichloropropene	mg/kg (ppm)	2.5	95	100	71-123	5
Carbon tetrachloride	mg/kg (ppm)	2.5	93	105	64-136	12
Benzene	mg/kg (ppm)	2.5	88	95	69-122	8
Trichloroethene	mg/kg (ppm)	2.5	92	99	71-122	7
1,2-Dichloropropane	mg/kg (ppm)	2.5	93	98	71-120	5
Bromodichloromethane	mg/kg (ppm)	2.5	103	108	68-140	5
Dibromomethane	mg/kg (ppm)	2.5	93	98	72-121	5
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	97	98	10-150	1
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	102	104	74-126	2
Toluene	mg/kg (ppm)	2.5	99	99	72-122	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	104	102	70-131	2
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	98	99	70-122	1
2-Hexanone	mg/kg (ppm)	12.5	98	98	10-152	0
1,3-Dichloropropane	mg/kg (ppm)	2.5	97	98	72-121	1
Tetrachloroethene	mg/kg (ppm)	2.5	93	91	69-125	2
Dibromochloromethane	mg/kg (ppm)	2.5	97	99	68-130	2
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	100	101	72-121	1
Chlorobenzene	mg/kg (ppm)	2.5	92	95	69-125	3
Ethylbenzene	mg/kg (ppm)	2.5	88	91	72-130	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	100	105	69-133	5
m,p-Xylene	mg/kg (ppm)	5	93	92	72-131	1
o-Xylene	mg/kg (ppm)	2.5	96	99	71-129	3
Styrene	mg/kg (ppm)	2.5	96	96	73-132	0
Isopropylbenzene	mg/kg (ppm)	2.5	92	95	73-134	3
Bromoform	mg/kg (ppm)	2.5	100	98	68-129	2
n-Propylbenzene	mg/kg (ppm)	2.5	93	97	72-136	4
Bromobenzene	mg/kg (ppm)	2.5	93	97	73-125	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	92	98	72-132	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	97	101	67-116	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	95	97	67-123	2
2-Chlorotoluene	mg/kg (ppm)	2.5	92	95	72-130	3
4-Chlorotoluene	mg/kg (ppm)	2.5	92	97	73-129	5
tert-Butylbenzene	mg/kg (ppm)	2.5	90	96	71-130	6
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	91	97	70-132	6
sec-Butylbenzene	mg/kg (ppm)	2.5	90	99	71-134	10
p-Isopropyltoluene	mg/kg (ppm)	2.5	88	96	71-135	9
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	90	95	70-124	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	90	95	68-126	5
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	91	97	71-125	6
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	102	109	63-122	7
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	86	95	69-132	10
Hexachlorobutadiene	mg/kg (ppm)	2.5	87	92	68-121	6
Naphthalene	mg/kg (ppm)	2.5	89	99	60-125	11
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	88	98	68-121	11

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

105028

SAMPLE CHAIN OF CUSTODY

ME 05-03-11

VS1 /A01

Charles Cacek

Send Report To ~~SoundEarth~~

Company SoundEarth

Address 2800 Fairview St. 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206 306 1902

SAMPLERS (signature)

PROJECT NAME/NO. ALSCO property

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals		Hold	Notes
Clean out #2			01A-B	5/2/11	1140		2				(X)				X	(X)-analyze per CC
Samp #3			02A-C	↓	1230		3				(X)				X	5/5/11 MC

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Charles Cacek	SoundEarth	5/3/11	
Received by:		Janine Kirby	F & B	5/3/11	15:30
Relinquished by:					
Received by:		DO VO	F & BI	5/3/11	16:00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 10, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on May 5, 2011 from the SOU_0774_20110505, F&BI 105066 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0510R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 5, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774_20110505, F&BI 105066 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
105066-01	Sump No 5
105066-02	CB01-01
105066-03	CB01-2

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for chloroethane. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump No 5	Client:	SoundEarth Strategies
Date Received:	05/05/11	Project:	SOU_0774_20110505, F&BI 105066
Date Extracted:	05/09/11	Lab ID:	105066-01
Date Analyzed:	05/07/11	Data File:	050648.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	42	158
Toluene-d8	100	42	159
4-Bromofluorobenzene	101	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<2	1,3-Dichloropropane	<0.2
Chloromethane	<2	Tetrachloroethene	830 ve
Vinyl chloride	64 ve	Dibromochloromethane	<0.2
Bromomethane	<2	1,2-Dibromoethane (EDB)	<0.2
Chloroethane	<2	Chlorobenzene	<0.2
Trichlorofluoromethane	<2	Ethylbenzene	1.6
Acetone	10	1,1,1,2-Tetrachloroethane	<0.2
1,1-Dichloroethene	2.6	m,p-Xylene	6.6
Methylene chloride	<2	o-Xylene	2.6
Methyl t-butyl ether (MTBE)	<0.2	Styrene	<0.2
trans-1,2-Dichloroethene	12	Isopropylbenzene	0.25
1,1-Dichloroethane	<0.2	Bromoform	<0.2
2,2-Dichloropropane	<0.2	n-Propylbenzene	0.64
cis-1,2-Dichloroethene	990 ve	Bromobenzene	<0.2
Chloroform	<0.2	1,3,5-Trimethylbenzene	1.5
2-Butanone (MEK)	<2	1,1,2,2-Tetrachloroethane	<0.2
1,2-Dichloroethane (EDC)	<0.2	1,2,3-Trichloropropane	<0.2
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.2
1,1-Dichloropropene	<0.2	4-Chlorotoluene	<0.2
Carbon tetrachloride	<0.2	tert-Butylbenzene	<0.2
Benzene	0.60	1,2,4-Trimethylbenzene	4.8
Trichloroethene	230 ve	sec-Butylbenzene	<0.2
1,2-Dichloropropane	<0.2	p-Isopropyltoluene	<0.2
Bromodichloromethane	<0.2	1,3-Dichlorobenzene	<0.2
Dibromomethane	<0.2	1,4-Dichlorobenzene	<0.2
4-Methyl-2-pentanone	<2	1,2-Dichlorobenzene	<0.2
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<2
Toluene	4.6	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<0.2	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<0.2	Naphthalene	4.1
2-Hexanone	<2	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump No 5	Client:	SoundEarth Strategies
Date Received:	05/05/11	Project:	SOU_0774_20110505, F&BI 105066
Date Extracted:	05/09/11	Lab ID:	105066-01 1/100
Date Analyzed:	05/09/11	Data File:	050915.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	111	42	158
Toluene-d8	106	42	159
4-Bromofluorobenzene	91	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<200	1,3-Dichloropropane	<20
Chloromethane	<200	Tetrachloroethene	1,200
Vinyl chloride	31	Dibromochloromethane	<20
Bromomethane	<200	1,2-Dibromoethane (EDB)	<20
Chloroethane	<200	Chlorobenzene	<20
Trichlorofluoromethane	<200	Ethylbenzene	<20
Acetone	<200	1,1,1,2-Tetrachloroethane	<20
1,1-Dichloroethene	<20	m,p-Xylene	<40
Methylene chloride	<200	o-Xylene	<20
Methyl t-butyl ether (MTBE)	<20	Styrene	<20
trans-1,2-Dichloroethene	<20	Isopropylbenzene	<20
1,1-Dichloroethane	<20	Bromoform	<20
2,2-Dichloropropane	<20	n-Propylbenzene	<20
cis-1,2-Dichloroethene	880	Bromobenzene	<20
Chloroform	<20	1,3,5-Trimethylbenzene	<20
2-Butanone (MEK)	<200	1,1,2,2-Tetrachloroethane	<20
1,2-Dichloroethane (EDC)	<20	1,2,3-Trichloropropane	<20
1,1,1-Trichloroethane	<20	2-Chlorotoluene	<20
1,1-Dichloropropene	<20	4-Chlorotoluene	<20
Carbon tetrachloride	<20	tert-Butylbenzene	<20
Benzene	<12	1,2,4-Trimethylbenzene	<20
Trichloroethene	180	sec-Butylbenzene	<20
1,2-Dichloropropane	<20	p-Isopropyltoluene	<20
Bromodichloromethane	<20	1,3-Dichlorobenzene	<20
Dibromomethane	<20	1,4-Dichlorobenzene	<20
4-Methyl-2-pentanone	<200	1,2-Dichlorobenzene	<20
cis-1,3-Dichloropropene	<20	1,2-Dibromo-3-chloropropane	<200
Toluene	<20	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<20	Hexachlorobutadiene	<100
1,1,2-Trichloroethane	<20	Naphthalene	<20
2-Hexanone	<200	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774_20110505, F&BI 105066
Date Extracted:	05/06/11	Lab ID:	01-801 mb
Date Analyzed:	05/06/11	Data File:	050614.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	42	158
Toluene-d8	105	42	159
4-Bromofluorobenzene	105	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Date of Report: 05/10/11
Date Received: 05/05/11
Project: SOU_0774_20110505, F&BI 105066

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	39	45	10-142	14
Chloromethane	mg/kg (ppm)	2.5	65	68	25-121	5
Vinyl chloride	mg/kg (ppm)	2.5	59	65	29-135	10
Bromomethane	mg/kg (ppm)	2.5	63	75	33-123	17
Chloroethane	mg/kg (ppm)	2.5	61	75	10-281	21 vo
Trichlorofluoromethane	mg/kg (ppm)	2.5	79	91	13-151	14
Acetone	mg/kg (ppm)	12.5	87	92	10-151	6
1,1-Dichloroethene	mg/kg (ppm)	2.5	76	87	22-151	13
Methylene chloride	mg/kg (ppm)	2.5	73	83	42-144	13
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	85	92	62-124	8
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	105	60-125	14
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	97	66-123	11
2,2-Dichloropropane	mg/kg (ppm)	2.5	92	99	53-134	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	97	72-118	9
Chloroform	mg/kg (ppm)	2.5	90	100	71-123	11
2-Butanone (MEK)	mg/kg (ppm)	12.5	100	106	10-150	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	90	97	60-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	91	101	68-128	10
1,1-Dichloropropene	mg/kg (ppm)	2.5	95	100	71-123	5
Carbon tetrachloride	mg/kg (ppm)	2.5	93	105	64-136	12
Benzene	mg/kg (ppm)	2.5	88	95	69-122	8
Trichloroethene	mg/kg (ppm)	2.5	92	99	71-122	7
1,2-Dichloropropane	mg/kg (ppm)	2.5	93	98	71-120	5
Bromodichloromethane	mg/kg (ppm)	2.5	103	108	68-140	5
Dibromomethane	mg/kg (ppm)	2.5	93	98	72-121	5
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	97	98	10-150	1
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	102	104	74-126	2
Toluene	mg/kg (ppm)	2.5	99	99	72-122	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	104	102	70-131	2
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	98	99	70-122	1
2-Hexanone	mg/kg (ppm)	12.5	98	98	10-152	0
1,3-Dichloropropane	mg/kg (ppm)	2.5	97	98	72-121	1
Tetrachloroethene	mg/kg (ppm)	2.5	93	91	69-125	2
Dibromochloromethane	mg/kg (ppm)	2.5	97	99	68-130	2
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	100	101	72-121	1
Chlorobenzene	mg/kg (ppm)	2.5	92	95	69-125	3
Ethylbenzene	mg/kg (ppm)	2.5	88	91	72-130	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	100	105	69-133	5
m,p-Xylene	mg/kg (ppm)	5	93	92	72-131	1
o-Xylene	mg/kg (ppm)	2.5	96	99	71-129	3
Styrene	mg/kg (ppm)	2.5	96	96	73-132	0
Isopropylbenzene	mg/kg (ppm)	2.5	92	95	73-134	3
Bromoform	mg/kg (ppm)	2.5	100	98	68-129	2
n-Propylbenzene	mg/kg (ppm)	2.5	93	97	72-136	4
Bromobenzene	mg/kg (ppm)	2.5	93	97	73-125	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	92	98	72-132	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	97	101	67-116	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	95	97	67-123	2
2-Chlorotoluene	mg/kg (ppm)	2.5	92	95	72-130	3
4-Chlorotoluene	mg/kg (ppm)	2.5	92	97	73-129	5
tert-Butylbenzene	mg/kg (ppm)	2.5	90	96	71-130	6
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	91	97	70-132	6
sec-Butylbenzene	mg/kg (ppm)	2.5	90	99	71-134	10
p-Isopropyltoluene	mg/kg (ppm)	2.5	88	96	71-135	9
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	90	95	70-124	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	90	95	68-126	5
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	91	97	71-125	6
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	102	109	63-122	7
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	86	95	69-132	10
Hexachlorobutadiene	mg/kg (ppm)	2.5	87	92	68-121	6
Naphthalene	mg/kg (ppm)	2.5	89	99	60-125	11
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	88	98	68-121	11

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

105066

SAMPLE CHAIN OF CUSTODY

ME 05/05/11 CI / 981

Page # 1 of 1

Send Report To Chuck Cacek

Company SoundEarth

Address 2200 Fairview Ave. E. Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) CC

PROJECT NAME/NO. ALSCO Property

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 5 day

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
								ANALYSES REQUESTED								
SUMP No 5			01 A-D	5-7-11	1430	Sludge	4				X					
CB01-01			02 A-D	"	1450	↓	5									
CB01-02 (ND) 5/5/11			03 A-C	"	1500	↓	3									Hold ↓

Samples received at 3 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: CC	Charles Cacek	SoundEarth	5/5/11	2:30p
Received by:	Matt Laughton	F+BI	5/5/11	2:30p
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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Kurt Johnson, B.S.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 19, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 1, 2011 from the SOU_0774-001-01_20110701, F&BI 107006 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0719R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 1, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774-001-01_20110701, F&BI 107006 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
107006-01	SUMP4_A_20110629
107006-02	SUMP4_B_20110629
107006-03	SUMP4_C_20110629

The 8260C calibration standard failed the acceptance criteria for hexachlorobutadiene. The data were flagged accordingly.

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for acetone. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SUMP4_B_20110629	Client:	SoundEarth Strategies
Date Received:	07/01/11	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/08/11	Lab ID:	107006-02 1/10
Date Analyzed:	07/13/11	Data File:	071313.D
Matrix:	Solid	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	62	142
Toluene-d8	106	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<5	1,3-Dichloropropane	<0.5
Chloromethane	<5	Tetrachloroethene	500 ve
Vinyl chloride	<0.5	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.5
Chloroethane	<5	Chlorobenzene	<0.5
Trichlorofluoromethane	<5	Ethylbenzene	<0.5
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.5
1,1-Dichloroethene	<0.5	m,p-Xylene	<1
Methylene chloride	<5	o-Xylene	<0.53
Methyl t-butyl ether (MTBE)	<0.5	Styrene	<0.5
trans-1,2-Dichloroethene	<0.5	Isopropylbenzene	<0.5
1,1-Dichloroethane	<0.5	Bromoform	<0.5
2,2-Dichloropropane	<0.5	n-Propylbenzene	<0.5
cis-1,2-Dichloroethene	27	Bromobenzene	<0.5
Chloroform	<0.5	1,3,5-Trimethylbenzene	<0.5
2-Butanone (MEK)	<5	1,1,2,2-Tetrachloroethane	<0.5
1,2-Dichloroethane (EDC)	<0.5	1,2,3-Trichloropropane	<0.5
1,1,1-Trichloroethane	<0.5	2-Chlorotoluene	<0.5
1,1-Dichloropropene	<0.5	4-Chlorotoluene	<0.5
Carbon tetrachloride	<0.5	tert-Butylbenzene	<0.5
Benzene	<0.3	1,2,4-Trimethylbenzene	<0.5
Trichloroethene	5.4	sec-Butylbenzene	<0.5
1,2-Dichloropropane	<0.5	p-Isopropyltoluene	<0.5
Bromodichloromethane	<0.5	1,3-Dichlorobenzene	<0.5
Dibromomethane	<0.5	1,4-Dichlorobenzene	<0.5
4-Methyl-2-pentanone	<5	1,2-Dichlorobenzene	<0.5
cis-1,3-Dichloropropene	<0.5	1,2-Dibromo-3-chloropropane	<5
Toluene	<0.5	1,2,4-Trichlorobenzene	<2.5
trans-1,3-Dichloropropene	<0.5	Hexachlorobutadiene	<2.5 ca
1,1,2-Trichloroethane	<0.5	Naphthalene	<0.5
2-Hexanone	<5	1,2,3-Trichlorobenzene	<2.5

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SUMP4_B_20110629	Client:	SoundEarth Strategies
Date Received:	07/01/11	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/08/11	Lab ID:	107006-02 1/100
Date Analyzed:	07/12/11	Data File:	071207A.D
Matrix:	Solid	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	62	142
Toluene-d8	105	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<50	1,3-Dichloropropane	<5
Chloromethane	<50	Tetrachloroethene	560
Vinyl chloride	<5	Dibromochloromethane	<5
Bromomethane	<50	1,2-Dibromoethane (EDB)	<5
Chloroethane	<50	Chlorobenzene	<5
Trichlorofluoromethane	<50	Ethylbenzene	<5
Acetone	<50	1,1,1,2-Tetrachloroethane	<5
1,1-Dichloroethene	<5	m,p-Xylene	<10
Methylene chloride	<50	o-Xylene	<5
Methyl t-butyl ether (MTBE)	<5	Styrene	<5
trans-1,2-Dichloroethene	<5	Isopropylbenzene	<5
1,1-Dichloroethane	<5	Bromoform	<5
2,2-Dichloropropane	<5	n-Propylbenzene	<5
cis-1,2-Dichloroethene	31	Bromobenzene	<5
Chloroform	<5	1,3,5-Trimethylbenzene	<5
2-Butanone (MEK)	<50	1,1,2,2-Tetrachloroethane	<5
1,2-Dichloroethane (EDC)	<5	1,2,3-Trichloropropane	<5
1,1,1-Trichloroethane	<5	2-Chlorotoluene	<5
1,1-Dichloropropene	<5	4-Chlorotoluene	<5
Carbon tetrachloride	<5	tert-Butylbenzene	<5
Benzene	<3	1,2,4-Trimethylbenzene	<5
Trichloroethene	6.3	sec-Butylbenzene	<5
1,2-Dichloropropane	<5	p-Isopropyltoluene	<5
Bromodichloromethane	<5	1,3-Dichlorobenzene	<5
Dibromomethane	<5	1,4-Dichlorobenzene	<5
4-Methyl-2-pentanone	<50	1,2-Dichlorobenzene	<5
cis-1,3-Dichloropropene	<5	1,2-Dibromo-3-chloropropane	<50
Toluene	<5	1,2,4-Trichlorobenzene	<25
trans-1,3-Dichloropropene	<5	Hexachlorobutadiene	<25
1,1,2-Trichloroethane	<5	Naphthalene	<5
2-Hexanone	<50	1,2,3-Trichlorobenzene	<25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SUMP4_C_20110629	Client:	SoundEarth Strategies
Date Received:	07/01/11	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/11/11	Lab ID:	107006-03 1/1000
Date Analyzed:	07/11/11	Data File:	071106.D
Matrix:	Solid	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	62	142
Toluene-d8	105	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<500	1,3-Dichloropropane	<50
Chloromethane	<500	Tetrachloroethene	24,000
Vinyl chloride	<50	Dibromochloromethane	<50
Bromomethane	<500	1,2-Dibromoethane (EDB)	<50
Chloroethane	<500	Chlorobenzene	<50
Trichlorofluoromethane	<500	Ethylbenzene	<50
Acetone	<500	1,1,1,2-Tetrachloroethane	<50
1,1-Dichloroethene	<50	m,p-Xylene	<100
Methylene chloride	<500	o-Xylene	<50
Methyl t-butyl ether (MTBE)	<50	Styrene	<50
trans-1,2-Dichloroethene	<50	Isopropylbenzene	<50
1,1-Dichloroethane	<50	Bromoform	<50
2,2-Dichloropropane	<50	n-Propylbenzene	<50
cis-1,2-Dichloroethene	170	Bromobenzene	<50
Chloroform	<50	1,3,5-Trimethylbenzene	<50
2-Butanone (MEK)	<500	1,1,2,2-Tetrachloroethane	<50
1,2-Dichloroethane (EDC)	<50	1,2,3-Trichloropropane	<50
1,1,1-Trichloroethane	<50	2-Chlorotoluene	<50
1,1-Dichloropropene	<50	4-Chlorotoluene	<50
Carbon tetrachloride	<50	tert-Butylbenzene	<50
Benzene	<30	1,2,4-Trimethylbenzene	<50
Trichloroethene	140	sec-Butylbenzene	<50
1,2-Dichloropropane	<50	p-Isopropyltoluene	<50
Bromodichloromethane	<50	1,3-Dichlorobenzene	<50
Dibromomethane	<50	1,4-Dichlorobenzene	<50
4-Methyl-2-pentanone	<500	1,2-Dichlorobenzene	<50
cis-1,3-Dichloropropene	<50	1,2-Dibromo-3-chloropropane	<500
Toluene	<50	1,2,4-Trichlorobenzene	<250
trans-1,3-Dichloropropene	<50	Hexachlorobutadiene	<250 ca
1,1,2-Trichloroethane	<50	Naphthalene	<50
2-Hexanone	<500	1,2,3-Trichlorobenzene	<250

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/08/11	Lab ID:	01-1190 mb
Date Analyzed:	07/08/11	Data File:	070817.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	62	142
Toluene-d8	104	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25 ca
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SUMP4_A_20110629	Client:	SoundEarth Strategies
Date Received:	07/01/11	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/12/11	Lab ID:	107006-01 1/100
Date Analyzed:	07/12/11	Data File:	071211.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	63	127
Toluene-d8	99	65	127
4-Bromofluorobenzene	108	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<100	1,3-Dichloropropane	<100
Chloromethane	<1,000	Tetrachloroethene	19,000 ve
Vinyl chloride	<20	Dibromochloromethane	<100
Bromomethane	<100	1,2-Dibromoethane (EDB)	<100
Chloroethane	<100	Chlorobenzene	<100
Trichlorofluoromethane	<100	Ethylbenzene	<100
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<100
1,1-Dichloroethene	<100	m,p-Xylene	<200
Methylene chloride	<500	o-Xylene	<100
Methyl t-butyl ether (MTBE)	<100	Styrene	<100
trans-1,2-Dichloroethene	<100	Isopropylbenzene	<100
1,1-Dichloroethane	<100	Bromoform	<100
2,2-Dichloropropane	<100	n-Propylbenzene	<100
cis-1,2-Dichloroethene	43,000 ve	Bromobenzene	<100
Chloroform	<100	1,3,5-Trimethylbenzene	<100
2-Butanone (MEK)	<1,000	1,1,2,2-Tetrachloroethane	<100
1,2-Dichloroethane (EDC)	<100	1,2,3-Trichloropropane	<100
1,1,1-Trichloroethane	<100	2-Chlorotoluene	<100
1,1-Dichloropropene	<100	4-Chlorotoluene	<100
Carbon tetrachloride	<100	tert-Butylbenzene	<100
Benzene	<35	1,2,4-Trimethylbenzene	<100
Trichloroethene	450	sec-Butylbenzene	<100
1,2-Dichloropropane	<100	p-Isopropyltoluene	<100
Bromodichloromethane	<100	1,3-Dichlorobenzene	<100
Dibromomethane	<100	1,4-Dichlorobenzene	<100
4-Methyl-2-pentanone	<1,000	1,2-Dichlorobenzene	<100
cis-1,3-Dichloropropene	<100	1,2-Dibromo-3-chloropropane	<1,000
Toluene	<100	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<100	Hexachlorobutadiene	<100
1,1,2-Trichloroethane	<100	Naphthalene	<100
2-Hexanone	<1,000	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SUMP4_A_20110629	Client:	SoundEarth Strategies
Date Received:	07/01/11	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/12/11	Lab ID:	107006-01 1/1000
Date Analyzed:	07/12/11	Data File:	071216.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	99	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000	Tetrachloroethene	20,000
Vinyl chloride	<200	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	47,000	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	<1,000	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774-001-01_20110701, F&BI 107006
Date Extracted:	07/12/11	Lab ID:	01-1196 mb
Date Analyzed:	07/12/11	Data File:	071205.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	63	127
Toluene-d8	99	65	127
4-Bromofluorobenzene	105	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Date of Report: 07/19/11
Date Received: 07/01/11
Project: SOU_0774-001-01_20110701, F&BI 107006

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	54	53	10-146	2
Chloromethane	mg/kg (ppm)	2.5	68	69	27-133	1
Vinyl chloride	mg/kg (ppm)	2.5	77	81	22-139	5
Bromomethane	mg/kg (ppm)	2.5	88	93	38-114	6
Chloroethane	mg/kg (ppm)	2.5	98	104	20-153	6
Trichlorofluoromethane	mg/kg (ppm)	2.5	95	101	10-196	6
Acetone	mg/kg (ppm)	12.5	69	85	52-141	21 vo
1,1-Dichloroethene	mg/kg (ppm)	2.5	83	88	47-128	6
Methylene chloride	mg/kg (ppm)	2.5	85	97	42-132	13
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	93	100	60-123	7
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	84	88	67-127	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	93	68-115	7
2,2-Dichloropropane	mg/kg (ppm)	2.5	101	103	57-133	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	86	93	72-113	8
Chloroform	mg/kg (ppm)	2.5	87	93	66-120	7
2-Butanone (MEK)	mg/kg (ppm)	12.5	81	93	57-123	14
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	91	98	56-135	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	95	101	62-131	6
1,1-Dichloropropene	mg/kg (ppm)	2.5	92	96	69-128	4
Carbon tetrachloride	mg/kg (ppm)	2.5	94	99	60-139	5
Benzene	mg/kg (ppm)	2.5	88	94	68-114	7
Trichloroethene	mg/kg (ppm)	2.5	89	95	68-114	7
1,2-Dichloropropane	mg/kg (ppm)	2.5	88	95	72-127	8
Bromodichloromethane	mg/kg (ppm)	2.5	88	96	72-130	9
Dibromomethane	mg/kg (ppm)	2.5	91	95	70-120	4
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	85	98	45-145	14
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	88	96	75-136	9
Toluene	mg/kg (ppm)	2.5	86	93	66-126	8
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	88	94	72-132	7
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	84	91	75-113	8
2-Hexanone	mg/kg (ppm)	12.5	91	94	33-152	3
1,3-Dichloropropane	mg/kg (ppm)	2.5	89	93	72-130	4
Tetrachloroethene	mg/kg (ppm)	2.5	85	93	72-114	9
Dibromochloromethane	mg/kg (ppm)	2.5	89	94	74-125	5
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	88	94	74-132	7
Chlorobenzene	mg/kg (ppm)	2.5	88	94	76-111	7
Ethylbenzene	mg/kg (ppm)	2.5	86	91	64-123	6
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	89	94	69-135	5
m,p-Xylene	mg/kg (ppm)	5	86	92	78-122	7
o-Xylene	mg/kg (ppm)	2.5	88	92	77-124	4
Styrene	mg/kg (ppm)	2.5	86	92	74-126	7
Isopropylbenzene	mg/kg (ppm)	2.5	86	91	76-127	6
Bromoform	mg/kg (ppm)	2.5	90	96	56-132	6
n-Propylbenzene	mg/kg (ppm)	2.5	84	91	74-124	8
Bromobenzene	mg/kg (ppm)	2.5	86	92	72-122	7
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	83	89	76-126	7
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	87	92	56-143	6
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	88	94	61-137	7
2-Chlorotoluene	mg/kg (ppm)	2.5	84	90	74-121	7
4-Chlorotoluene	mg/kg (ppm)	2.5	84	90	75-122	7
tert-Butylbenzene	mg/kg (ppm)	2.5	82	88	73-130	7
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	84	89	76-125	6
sec-Butylbenzene	mg/kg (ppm)	2.5	81	86	71-130	6
p-Isopropyltoluene	mg/kg (ppm)	2.5	81	87	70-132	7
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	85	91	75-121	7
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	85	92	74-117	8
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	85	91	76-121	7
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	84	88	61-136	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	78	84	70-129	7
Hexachlorobutadiene	mg/kg (ppm)	2.5	68	72	50-153	6
Naphthalene	mg/kg (ppm)	2.5	80	86	60-125	7
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	79	85	62-130	7

Date of Report: 07/19/11
Date Received: 07/01/11
Project: SOU_0774-001-01_20110701, F&BI 107006

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 107083-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	94	10-185
Chloromethane	ug/L (ppb)	50	<10	97	26-167
Vinyl chloride	ug/L (ppb)	50	<0.2	101	10-185
Bromomethane	ug/L (ppb)	50	<1	97	24-165
Chloroethane	ug/L (ppb)	50	<1	98	10-172
Trichlorofluoromethane	ug/L (ppb)	50	<1	108	30-199
Acetone	ug/L (ppb)	250	14	101	19-168
1,1-Dichloroethene	ug/L (ppb)	50	<1	105	35-149
Methylene chloride	ug/L (ppb)	50	<5	91	61-138
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	93	49-139
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	96	65-128
1,1-Dichloroethane	ug/L (ppb)	50	<1	95	67-127
2,2-Dichloropropane	ug/L (ppb)	50	<1	97	23-163
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	65-139
Chloroform	ug/L (ppb)	50	<1	98	71-127
2-Butanone (MEK)	ug/L (ppb)	250	<10	98	47-162
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	100	68-132
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	101	63-135
1,1-Dichloropropene	ug/L (ppb)	50	<1	101	65-127
Carbon tetrachloride	ug/L (ppb)	50	<1	109	55-139
Benzene	ug/L (ppb)	50	<0.35	94	62-144
Trichloroethene	ug/L (ppb)	50	<1	95	66-121
1,2-Dichloropropane	ug/L (ppb)	50	<1	101	73-130
Bromodichloromethane	ug/L (ppb)	50	<1	109	65-135
Dibromomethane	ug/L (ppb)	50	<1	102	65-135
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	106	56-143
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	107	55-146
Toluene	ug/L (ppb)	50	<1	97	68-131
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	112	63-147
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	102	63-143
2-Hexanone	ug/L (ppb)	250	<10	104	51-149
1,3-Dichloropropane	ug/L (ppb)	50	<1	98	72-126
Tetrachloroethene	ug/L (ppb)	50	<1	104	64-132
Dibromochloromethane	ug/L (ppb)	50	<1	112	65-135
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	102	77-127
Chlorobenzene	ug/L (ppb)	50	<1	98	72-118
Ethylbenzene	ug/L (ppb)	50	<1	100	51-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	108	72-129
m,p-Xylene	ug/L (ppb)	100	<2	101	72-137
o-Xylene	ug/L (ppb)	50	<1	98	67-133
Styrene	ug/L (ppb)	50	<1	102	73-126
Isopropylbenzene	ug/L (ppb)	50	<1	98	65-135
Bromoform	ug/L (ppb)	50	<1	116	60-136
n-Propylbenzene	ug/L (ppb)	50	<1	99	66-133
Bromobenzene	ug/L (ppb)	50	<1	100	70-129
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	99	72-130
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	102	65-137
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	102	66-135
2-Chlorotoluene	ug/L (ppb)	50	<1	97	62-131
4-Chlorotoluene	ug/L (ppb)	50	<1	100	62-132
tert-Butylbenzene	ug/L (ppb)	50	<1	97	64-135
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	100	69-139
sec-Butylbenzene	ug/L (ppb)	50	<1	97	64-134
p-Isopropyltoluene	ug/L (ppb)	50	<1	97	69-134
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	99	65-126
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	98	65-121
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	97	64-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	106	54-133
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	95	63-141
Hexachlorobutadiene	ug/L (ppb)	50	<1	84	53-140
Naphthalene	ug/L (ppb)	50	<1	95	40-166
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	92	55-148

Date of Report: 07/19/11
Date Received: 07/01/11
Project: SOU_0774-001-01_20110701, F&BI 107006

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	96	101	27-138	5
Chloromethane	ug/L (ppb)	50	98	103	49-125	5
Vinyl chloride	ug/L (ppb)	50	97	106	53-131	9
Bromomethane	ug/L (ppb)	50	91	100	62-148	9
Chloroethane	ug/L (ppb)	50	95	97	30-176	2
Trichlorofluoromethane	ug/L (ppb)	50	104	112	65-172	7
Acetone	ug/L (ppb)	250	102	105	32-177	3
1,1-Dichloroethene	ug/L (ppb)	50	99	110	65-157	11
Methylene chloride	ug/L (ppb)	50	89	97	17-177	9
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	95	100	54-156	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	100	71-128	5
1,1-Dichloroethane	ug/L (ppb)	50	96	101	74-118	5
2,2-Dichloropropane	ug/L (ppb)	50	100	106	65-150	6
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	102	74-126	5
Chloroform	ug/L (ppb)	50	97	102	76-118	5
2-Butanone (MEK)	ug/L (ppb)	250	97	97	52-152	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	100	71-135	1
1,1,1-Trichloroethane	ug/L (ppb)	50	100	106	77-123	6
1,1-Dichloropropene	ug/L (ppb)	50	98	100	75-122	2
Carbon tetrachloride	ug/L (ppb)	50	111	115	73-126	4
Benzene	ug/L (ppb)	50	95	96	77-121	1
Trichloroethene	ug/L (ppb)	50	94	96	74-119	2
1,2-Dichloropropane	ug/L (ppb)	50	102	103	77-121	1
Bromodichloromethane	ug/L (ppb)	50	109	111	77-129	2
Dibromomethane	ug/L (ppb)	50	100	103	79-121	3
4-Methyl-2-pentanone	ug/L (ppb)	250	105	104	65-135	1
cis-1,3-Dichloropropene	ug/L (ppb)	50	109	110	79-129	1
Toluene	ug/L (ppb)	50	98	98	81-113	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	113	111	90-128	2
1,1,2-Trichloroethane	ug/L (ppb)	50	102	102	85-116	0
2-Hexanone	ug/L (ppb)	250	101	100	58-160	1
1,3-Dichloropropane	ug/L (ppb)	50	101	99	88-115	2
Tetrachloroethene	ug/L (ppb)	50	105	105	83-113	0
Dibromochloromethane	ug/L (ppb)	50	114	114	89-128	0
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	103	102	88-122	1
Chlorobenzene	ug/L (ppb)	50	98	98	84-116	0
Ethylbenzene	ug/L (ppb)	50	99	98	83-116	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	110	111	86-124	1
m,p-Xylene	ug/L (ppb)	100	102	101	84-120	1
o-Xylene	ug/L (ppb)	50	98	100	83-120	2
Styrene	ug/L (ppb)	50	102	102	87-119	0
Isopropylbenzene	ug/L (ppb)	50	98	101	83-120	3
Bromoform	ug/L (ppb)	50	118	116	77-119	2
n-Propylbenzene	ug/L (ppb)	50	99	98	83-118	1
Bromobenzene	ug/L (ppb)	50	100	99	88-117	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	98	100	85-121	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	102	100	81-120	2
1,2,3-Trichloropropane	ug/L (ppb)	50	101	100	77-123	1
2-Chlorotoluene	ug/L (ppb)	50	97	97	81-116	0
4-Chlorotoluene	ug/L (ppb)	50	100	98	83-117	2
tert-Butylbenzene	ug/L (ppb)	50	96	98	84-118	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	98	99	86-119	1
sec-Butylbenzene	ug/L (ppb)	50	96	98	84-121	2
p-Isopropyltoluene	ug/L (ppb)	50	96	99	85-118	3
1,3-Dichlorobenzene	ug/L (ppb)	50	98	99	85-118	1
1,4-Dichlorobenzene	ug/L (ppb)	50	97	97	85-119	0
1,2-Dichlorobenzene	ug/L (ppb)	50	97	98	81-117	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	107	108	62-136	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	95	102	75-129	7
Hexachlorobutadiene	ug/L (ppb)	50	86	93	72-138	8
Naphthalene	ug/L (ppb)	50	95	101	66-135	6
1,2,3-Trichlorobenzene	ug/L (ppb)	50	94	101	70-133	7

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

107006

SAMPLE CHAIN OF CUSTODY

ME 07/01/11 A02 (VSF) ~~DO4, VT, AK~~

Page # 1 of 1 (No)

Send Report To Charles Cacek / Ryan Bixby
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Ave. E., Ste. 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. ALSCO Property 0774-001-01

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ ~~Dispose after 30 days~~ Place in long term storage per cc 7/7/11 MC
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
SUMP4_A_20110629			01A-I	6-29-11	1400	Water	9				X					~~Hold~~
SUMP4_B_20110629			02A-K	↓	1415	Sludge	11				X					
SUMP4_C_20110629			03A-J	↓	1420	Sediment	10				X					↓
																X-analyze per CC 7/7/11 MC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Charles Cacek	SoundEarth	6-29-11	1130
Received by:	Matt Livingston	F+B Fed Ex	7/1/11	1130
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 28, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 22, 2011 from the SOU_0774-001-01_20110722, F&BI 107310 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0728R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 22, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774-001-01_20110722, F&BI 107310 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
107310-01	Sump4_Soil_01'
107310-02	01_Floor Trench

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump4_Soil_01'	Client:	SoundEarth Strategies
Date Received:	07/22/11	Project:	SOU_0774-001-01_20110722, F&BI 107310
Date Extracted:	07/25/11	Lab ID:	107310-01
Date Analyzed:	07/25/11	Data File:	072524.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	42	158
Toluene-d8	100	42	159
4-Bromofluorobenzene	102	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	18 ve
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	0.15	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	0.037	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Sump4_Soil_01'	Client:	SoundEarth Strategies
Date Received:	07/22/11	Project:	SOU_0774-001-01_20110722, F&BI 107310
Date Extracted:	07/25/11	Lab ID:	107310-01 1/10
Date Analyzed:	07/26/11	Data File:	072621.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	42	158
Toluene-d8	103	42	159
4-Bromofluorobenzene	104	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<5	1,3-Dichloropropane	<0.5
Chloromethane	<5	Tetrachloroethene	19
Vinyl chloride	<0.5	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.5
Chloroethane	<5	Chlorobenzene	<0.5
Trichlorofluoromethane	<5	Ethylbenzene	<0.5
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.5
1,1-Dichloroethene	<0.5	m,p-Xylene	<1
Methylene chloride	<5	o-Xylene	<0.5
Methyl t-butyl ether (MTBE)	<0.5	Styrene	<0.5
trans-1,2-Dichloroethene	<0.5	Isopropylbenzene	<0.5
1,1-Dichloroethane	<0.5	Bromoform	<0.5
2,2-Dichloropropane	<0.5	n-Propylbenzene	<0.5
cis-1,2-Dichloroethene	<0.5	Bromobenzene	<0.5
Chloroform	<0.5	1,3,5-Trimethylbenzene	<0.5
2-Butanone (MEK)	<5	1,1,2,2-Tetrachloroethane	<0.5
1,2-Dichloroethane (EDC)	<0.5	1,2,3-Trichloropropane	<0.5
1,1,1-Trichloroethane	<0.5	2-Chlorotoluene	<0.5
1,1-Dichloropropene	<0.5	4-Chlorotoluene	<0.5
Carbon tetrachloride	<0.5	tert-Butylbenzene	<0.5
Benzene	<0.3	1,2,4-Trimethylbenzene	<0.5
Trichloroethene	<0.3	sec-Butylbenzene	<0.5
1,2-Dichloropropane	<0.5	p-Isopropyltoluene	<0.5
Bromodichloromethane	<0.5	1,3-Dichlorobenzene	<0.5
Dibromomethane	<0.5	1,4-Dichlorobenzene	<0.5
4-Methyl-2-pentanone	<5	1,2-Dichlorobenzene	<0.5
cis-1,3-Dichloropropene	<0.5	1,2-Dibromo-3-chloropropane	<5
Toluene	<0.5	1,2,4-Trichlorobenzene	<2.5
trans-1,3-Dichloropropene	<0.5	Hexachlorobutadiene	<2.5
1,1,2-Trichloroethane	<0.5	Naphthalene	<0.5
2-Hexanone	<5	1,2,3-Trichlorobenzene	<2.5

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01_Floor Trench	Client:	SoundEarth Strategies
Date Received:	07/22/11	Project:	SOU_0774-001-01_20110722, F&BI 107310
Date Extracted:	07/25/11	Lab ID:	107310-02
Date Analyzed:	07/26/11	Data File:	072620.D
Matrix:	Solid	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	42	158
Toluene-d8	102	42	159
4-Bromofluorobenzene	104	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	0.10
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774-001-01_20110722, F&BI 107310
Date Extracted:	07/25/11	Lab ID:	01-1260 mb
Date Analyzed:	07/25/11	Data File:	072508.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	42	158
Toluene-d8	101	42	159
4-Bromofluorobenzene	103	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

Date of Report: 07/28/11
Date Received: 07/22/11
Project: SOU_0774-001-01_20110722, F&BI 107310

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 107294-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	12	10-171
Chloromethane	mg/kg (ppm)	2.5	<0.5	35	10-162
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-166
Bromomethane	mg/kg (ppm)	2.5	<0.5	47	10-165
Chloroethane	mg/kg (ppm)	2.5	<0.5	55	10-161
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	40	10-168
Acetone	mg/kg (ppm)	12.5	<0.5	63	20-155
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	50	10-168
Methylene chloride	mg/kg (ppm)	2.5	<0.5	60	21-149
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	64	39-139
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	20-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	60	30-114
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	61	17-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	64	36-111
Chloroform	mg/kg (ppm)	2.5	<0.05	64	39-114
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	68	24-153
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	67	38-116
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	64	27-119
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	62	26-118
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.05	64	22-123
Benzene	mg/kg (ppm)	2.5	<0.03	63	33-113
Trichloroethene	mg/kg (ppm)	2.5	<0.03	68	36-113
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	66	40-113
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	69	43-118
Dibromomethane	mg/kg (ppm)	2.5	<0.05	69	43-113
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.5	70	34-154
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	70	43-117
Toluene	mg/kg (ppm)	2.5	<0.05	64	38-139
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	72	44-140
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	68	38-146
2-Hexanone	mg/kg (ppm)	12.5	<0.5	70	37-150
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	67	47-133
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	64	29-117
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	70	46-116
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	69	44-139
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	66	41-114
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	66	38-120
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	72	43-120
m,p-Xylene	mg/kg (ppm)	5	<0.1	67	37-122
o-Xylene	mg/kg (ppm)	2.5	<0.05	67	39-121
Styrene	mg/kg (ppm)	2.5	<0.05	69	43-121
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05	67	38-126
Bromoform	mg/kg (ppm)	2.5	<0.05	72	44-120
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	67	34-127
Bromobenzene	mg/kg (ppm)	2.5	<0.05	68	42-115
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	67	34-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	69	41-113
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	69	45-134
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	68	40-120
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	69	41-119
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	67	37-125
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	68	34-129
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	67	35-127
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.05	66	35-128
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	39-115
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	39-114
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	43-115
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.5	73	30-147
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	68	37-121
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.25	64	29-121
Naphthalene	mg/kg (ppm)	2.5	<0.05	69	12-168
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	67	11-172

Date of Report: 07/28/11
Date Received: 07/22/11
Project: SOU_0774-001-01_20110722, F&BI 107310

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	38	38	10-142	0
Chloromethane	mg/kg (ppm)	2.5	57	56	25-121	2
Vinyl chloride	mg/kg (ppm)	2.5	61	59	29-135	3
Bromomethane	mg/kg (ppm)	2.5	63	60	33-123	5
Chloroethane	mg/kg (ppm)	2.5	66	63	10-281	5
Trichlorofluoromethane	mg/kg (ppm)	2.5	65	56	13-151	15
Acetone	mg/kg (ppm)	12.5	74	72	10-151	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	68	66	22-151	3
Methylene chloride	mg/kg (ppm)	2.5	68	71	42-144	4
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	85	80	62-124	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	77	75	60-125	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	86	82	66-123	5
2,2-Dichloropropane	mg/kg (ppm)	2.5	96	90	53-134	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	83	72-118	6
Chloroform	mg/kg (ppm)	2.5	90	85	71-123	6
2-Butanone (MEK)	mg/kg (ppm)	12.5	91	87	10-150	4
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	82	60-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	94	88	68-128	7
1,1-Dichloropropene	mg/kg (ppm)	2.5	90	84	71-123	7
Carbon tetrachloride	mg/kg (ppm)	2.5	96	93	64-136	3
Benzene	mg/kg (ppm)	2.5	88	83	69-122	6
Trichloroethene	mg/kg (ppm)	2.5	96	91	71-122	5
1,2-Dichloropropane	mg/kg (ppm)	2.5	91	86	71-120	6
Bromodichloromethane	mg/kg (ppm)	2.5	101	94	68-140	7
Dibromomethane	mg/kg (ppm)	2.5	94	88	72-121	7
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	93	89	10-150	4
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	101	96	74-126	5
Toluene	mg/kg (ppm)	2.5	86	84	72-122	2
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	101	98	70-131	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	88	86	70-122	2
2-Hexanone	mg/kg (ppm)	12.5	89	84	10-152	6
1,3-Dichloropropane	mg/kg (ppm)	2.5	88	85	72-121	3
Tetrachloroethene	mg/kg (ppm)	2.5	88	86	69-125	2
Dibromochloromethane	mg/kg (ppm)	2.5	98	94	68-130	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	91	88	72-121	3
Chlorobenzene	mg/kg (ppm)	2.5	85	83	69-125	2
Ethylbenzene	mg/kg (ppm)	2.5	88	85	72-130	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	97	94	69-133	3
m,p-Xylene	mg/kg (ppm)	5	89	86	72-131	3
o-Xylene	mg/kg (ppm)	2.5	90	85	71-129	6
Styrene	mg/kg (ppm)	2.5	91	89	73-132	2
Isopropylbenzene	mg/kg (ppm)	2.5	89	86	73-134	3
Bromoform	mg/kg (ppm)	2.5	104	98	68-129	6
n-Propylbenzene	mg/kg (ppm)	2.5	89	86	72-136	3
Bromobenzene	mg/kg (ppm)	2.5	91	88	73-125	3
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	90	85	72-132	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	92	88	67-116	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	90	85	67-123	6
2-Chlorotoluene	mg/kg (ppm)	2.5	91	87	72-130	4
4-Chlorotoluene	mg/kg (ppm)	2.5	90	87	73-129	3
tert-Butylbenzene	mg/kg (ppm)	2.5	89	86	71-130	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	89	87	70-132	2
sec-Butylbenzene	mg/kg (ppm)	2.5	89	87	71-134	2
p-Isopropyltoluene	mg/kg (ppm)	2.5	90	87	71-135	3
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	89	85	70-124	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	88	85	68-126	3
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	89	86	71-125	3
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	99	95	63-122	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	90	89	69-132	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	87	88	68-121	1
Naphthalene	mg/kg (ppm)	2.5	91	90	60-125	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	89	90	68-121	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

107310

SAMPLE CHAIN OF CUSTODY

ME 07/22/11

VSI / BOI

Page # 1 of 1

Send Report To Chuck Cavit
Company SoundEarth Strategies
Address 2811 Fairview Ave E
City, State, ZIP Seattle, WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0774-001-01

PO #

REMARKS

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Full 8240C VOC's					Notes
Sump4_Soil-01						ANALYSES REQUESTED											
~~Sump4-01~~	01 A-J	07/22/11	1640	Soil	10							X					
01_Floor trench	02 A-J	07/22/11	1700	~~Soil~~ Sludge.	10							X					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	WILL CAMARDA	SES	07/22/11	1753
Received by:	HONGNGUYEN	FBI	V	18:00
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

Samples received at 12 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 9, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on February 10, 2012 from the SOU_0774-001-01_20120210, F&BI 202117 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0309R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on February 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774-001-01_20120210, F&BI 202117 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
202117 -01	EX01S04-4.2
202117 -02	EX01S05-6
202117 -03	EX01S06-2.5
202117 -04	EX01S07-2.5
202117 -05	EX01S08-4.1

The samples were requested to be analyzed outside of the 14 day holding time. The data were flagged accordingly.

Methylene chloride was detected in the samples. The results were flagged as likely due to laboratory contamination.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01S04-4.2 ht	Client:	SoundEarth Strategies
Date Received:	02/10/12	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	202117-01
Date Analyzed:	03/07/12	Data File:	030721.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	0.92 lc
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.23
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.44
Tetrachloroethene	110 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01S04-4.2 ht	Client:	SoundEarth Strategies
Date Received:	02/10/12	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	202117-01 1/100
Date Analyzed:	03/07/12	Data File:	030719.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<5
Chloroethane	<50
1,1-Dichloroethene	<5
Methylene chloride	<50
trans-1,2-Dichloroethene	<5
1,1-Dichloroethane	<5
cis-1,2-Dichloroethene	<5
1,2-Dichloroethane (EDC)	<5
1,1,1-Trichloroethane	<5
Trichloroethene	<3
Tetrachloroethene	150

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01S05-6 ht	Client:	SoundEarth Strategies
Date Received:	02/10/12	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	202117-02
Date Analyzed:	03/07/12	Data File:	030722.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	0.51 lc
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.23
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.38
Tetrachloroethene	120 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01S05-6 ht	Client:	SoundEarth Strategies
Date Received:	02/10/12	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	202117-02 1/100
Date Analyzed:	03/07/12	Data File:	030720.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	103	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<5
Chloroethane	<50
1,1-Dichloroethene	<5
Methylene chloride	<50
trans-1,2-Dichloroethene	<5
1,1-Dichloroethane	<5
cis-1,2-Dichloroethene	<5
1,2-Dichloroethane (EDC)	<5
1,1,1-Trichloroethane	<5
Trichloroethene	<3
Tetrachloroethene	190

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01S07-2.5 ht	Client:	SoundEarth Strategies
Date Received:	02/10/12	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	202117-04
Date Analyzed:	03/07/12	Data File:	030711.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	0.52 lc
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	5.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774-001-01_20120210, F&BI 202117
Date Extracted:	03/05/12	Lab ID:	02-0341 mb
Date Analyzed:	03/07/12	Data File:	030710.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/09/12
Date Received: 02/10/12
Project: SOU_0774-001-01_20120210, F&BI 202117

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 202117-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	47	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	77	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	10-160
Methylene chloride	mg/kg (ppm)	2.5	0.52	45 b	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	77	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	71	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	69	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	74	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	72	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	64	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	5.4	-82	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	59	62	22-139	5
Chloroethane	mg/kg (ppm)	2.5	73	60	20-153	20
1,1-Dichloroethene	mg/kg (ppm)	2.5	74	72	47-128	3
Methylene chloride	mg/kg (ppm)	2.5	123	130	42-132	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	79	78	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	82	81	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	80	79	72-113	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	83	81	56-135	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	83	84	62-131	1
Trichloroethene	mg/kg (ppm)	2.5	77	77	68-114	0
Tetrachloroethene	mg/kg (ppm)	2.5	79	78	72-114	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

202117

SAMPLE CHAIN OF CUSTODY

HE 02-10-12 A01/V81

Page # 1 of 1

Send Report To Chuck Carey

Company Sound Earth Strategies

Address 2811 Fairview Ave. E. S. 2000

City, State, ZIP Seattle WA 98104

Phone # 206 306 1900 Fax # 206 306 1902

SAMPLERS (signature)

PROJECT NAME/NO. ALSCO Property 0774-001-01

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 4-Day
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	Halogenated VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	Hold		Notes
EX01504-4.2			01A-E	2/10/12	1010	Soil	5				X			X		X-analyze as marked per CoC 3/5/12 mg
EX01505-6'			02		1019						X					
EX01506-2.5			03		1027											
EX01507-2.5			04		1033						X					
EX01508-4.1			05		1040											

Samples received at 8 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chuck Carey	SES	2/10/12	
Received by: Ken Hodgson	KEN Hodgson	Postal Express	2-10-12	3:35
Relinquished by:				
Received by:	HONG NGUYEN	PDT	2/10/12	16:00

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 27, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 21, 2012 from the SOU_0774_20120321, F&BI 203285 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0327R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 21, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0774_20120321, F&BI 203285 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
203285-01	EX01-S18-07.5

All quality control requirements were acceptable.

Date of Report: 03/27/12
Date Received: 03/21/12
Project: SOU_0774_20120321, F&BI 203285
Date Extracted: NA
Date Analyzed: 03/21/12

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	% Moisture
EX01-S18-07.5 203285-01	6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EX01-S18-07.5	Client:	SoundEarth Strategies
Date Received:	03/21/12	Project:	SOU_0774_20120321, F&BI 203285
Date Extracted:	03/22/12	Lab ID:	203285-01
Date Analyzed:	03/22/12	Data File:	032218.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	104	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.98

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0774_20120321, F&BI 203285
Date Extracted:	03/22/12	Lab ID:	02-0426 mb
Date Analyzed:	03/22/12	Data File:	032210.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/27/12
Date Received: 03/21/12
Project: SOU_0774_20120321, F&BI 203285

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 203251-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	31	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	49	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	49	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	54	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	57	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	60	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	56	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	53	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	51	20-133

Date of Report: 03/27/12
Date Received: 03/21/12
Project: SOU_0774_20120321, F&BI 203285

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	43	42	22-139	2
Chloroethane	mg/kg (ppm)	2.5	64	58	20-153	10
1,1-Dichloroethene	mg/kg (ppm)	2.5	75	70	47-128	7
Methylene chloride	mg/kg (ppm)	2.5	82	77	42-132	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	77	75	67-127	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	79	80	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	77	79	72-113	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	83	82	56-135	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	80	83	62-131	4
Trichloroethene	mg/kg (ppm)	2.5	77	77	68-114	0
Tetrachloroethene	mg/kg (ppm)	2.5	80	80	72-114	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

203285

SAMPLE CHAIN OF CUSTODY ME 03/21/12

VSI / 401

Page # 1 of 1

Send Report To C. Cacek

Company SoundEarth Strategies

Address 8811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 0774 / 700 Dexter

PO #:

REMARKS: HOLD

GEMS Y / N:

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48h TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	HVOC VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Hold	% Moisture	Notes
EX01-S18-07.5	EX01-S18	7.5	01A-E	3/21/12	0845	Soil	5				★			X	★	★-grce 3/22/12 MS

3/21/12

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/21/12	1125
Received by:	Nhan Phan	FEBI	3/21/12	1125
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 19, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 11, 2012 from the SOU_0797_20120711, F&BI 207128 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0719R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 11, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120711, F&BI 207128 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207128-01	B101-30
207128-02	B101-34
207128-03	B101-40
207128-04	B101-47
207128-05	B101-55
207128-06	B101-65
207128-07	Trip Blank

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-30	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-01
Date Analyzed:	07/11/12	Data File:	071125.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.12
Tetrachloroethene	16 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-30	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-01 1/10
Date Analyzed:	07/12/12	Data File:	071221.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	24

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-34	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-02
Date Analyzed:	07/11/12	Data File:	071126.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.033
Tetrachloroethene	6.4 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-34	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-02 1/5
Date Analyzed:	07/12/12	Data File:	071222.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.25
Chloroethane	<2.5
1,1-Dichloroethene	<0.25
Methylene chloride	<2.5
trans-1,2-Dichloroethene	<0.25
1,1-Dichloroethane	<0.25
cis-1,2-Dichloroethene	<0.25
1,2-Dichloroethane (EDC)	<0.25
1,1,1-Trichloroethane	<0.25
Trichloroethene	<0.15
Tetrachloroethene	8.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-40	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-03
Date Analyzed:	07/11/12	Data File:	071127.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.064
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.28
Tetrachloroethene	11 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-40	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-03 1/5
Date Analyzed:	07/12/12	Data File:	071223.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.25
Chloroethane	<2.5
1,1-Dichloroethene	<0.25
Methylene chloride	<2.5
trans-1,2-Dichloroethene	<0.25
1,1-Dichloroethane	<0.25
cis-1,2-Dichloroethene	<0.25
1,2-Dichloroethane (EDC)	<0.25
1,1,1-Trichloroethane	<0.25
Trichloroethene	0.63
Tetrachloroethene	20

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-47	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-04
Date Analyzed:	07/11/12	Data File:	071128.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.12
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.20
Tetrachloroethene	7.2

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-55	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-05
Date Analyzed:	07/11/12	Data File:	071124.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.084
Tetrachloroethene	4.2

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-65	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	207128-06
Date Analyzed:	07/11/12	Data File:	071123.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120711, F&BI 207128
Date Extracted:	07/11/12	Lab ID:	02-1200 mb
Date Analyzed:	07/11/12	Data File:	071120.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/19/12
Date Received: 07/11/12
Project: SOU_0797_20120711, F&BI 207128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207128-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	57	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	77	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	74	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	83	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	80	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	76	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	75	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	82	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	50-150
Trichloroethene	mg/kg (ppm)	2.5	0.084	73	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	4.2	48 b	50-150

Date of Report: 07/19/12
Date Received: 07/11/12
Project: SOU_0797_20120711, F&BI 207128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	83	87	36-100	5
Chloroethane	mg/kg (ppm)	2.5	99	101	28-114	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	102	105	47-121	3
Methylene chloride	mg/kg (ppm)	2.5	105	105	50-134	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	105	47-121	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	95	55-117	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	94	66-116	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	98	48-127	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	90	90	57-125	0
Trichloroethene	mg/kg (ppm)	2.5	90	89	64-114	1
Tetrachloroethene	mg/kg (ppm)	2.5	95	98	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207128

ME 07-11-12

VS2

Page # 1 of 1

Send Report To

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B101-30	B101	30	01A-D	7-10-12	0900	Soil	4							X		
B101-34	"	34	02	"	0905	Soil	4							X		
B101-40	"	40	03	"	0930	Soil	4							X		
B101-47	"	47	04	"	1570	Soil	4							X		
B101-55	"	55	05	"	1620	Soil	4							X		
B101-65	"	65	06AB	"	1740	Soil	4							X		
Trip Blank			07AB	—	—	water	2									(NP 7-11-12 Added in lab

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-3029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Warren Rakovich	SES	7/11/12	1103
Received by:		Nhan Phan	FEBT	7/11/12	1103
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 12, 2012 from the SOU_0797_20120712, F&BI 207152 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0717R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120712, F&BI 207152 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207152-01	B101-75
207152-02	B101-81

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-75	Client:	SoundEarth Strategies
Date Received:	07/12/12	Project:	SOU_0797_20120712, F&BI 207152
Date Extracted:	07/12/12	Lab ID:	207152-01
Date Analyzed:	07/12/12	Data File:	071219.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-81	Client:	SoundEarth Strategies
Date Received:	07/12/12	Project:	SOU_0797_20120712, F&BI 207152
Date Extracted:	07/12/12	Lab ID:	207152-02
Date Analyzed:	07/12/12	Data File:	071220.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.31

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120712, F&BI 207152
Date Extracted:	07/12/12	Lab ID:	02-1200 mb2
Date Analyzed:	07/12/12	Data File:	071217.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/17/12
Date Received: 07/12/12
Project: SOU_0797_20120712, F&BI 207152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207128-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	57	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	77	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	74	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	83	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	80	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	76	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	75	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	82	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	50-150
Trichloroethene	mg/kg (ppm)	2.5	0.084	73	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	4.2	48 b	50-150

Date of Report: 07/17/12
Date Received: 07/12/12
Project: SOU_0797_20120712, F&BI 207152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	83	87	36-100	5
Chloroethane	mg/kg (ppm)	2.5	99	101	28-114	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	102	105	47-121	3
Methylene chloride	mg/kg (ppm)	2.5	105	105	50-134	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	105	47-121	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	95	55-117	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	94	66-116	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	98	48-127	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	90	90	57-125	0
Trichloroethene	mg/kg (ppm)	2.5	90	89	64-114	1
Tetrachloroethene	mg/kg (ppm)	2.5	95	98	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207152

SAMPLE CHAIN OF CUSTODY

ME 07-12-12 VS1

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu, Zn's		Notes
B101-7S	B101	7S	01A-D	7-11-12	1010	Soil	4							X		
B101-8I	B101	8I	02T	7-11-12	1605	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Warren Rajkovich	SES	7/12/12	0957
Received by:	Nhan Phan	FedT	7/12/12	0957
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 8 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 23, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 13, 2012 from the SOU_0797_20120713, F&BI 207166 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0723R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 13, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120713, F&BI 207166 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207166-01	B101-92
207166-02	B101-97
207166-03	B101-104
207166-04	B101-114.5
207166-05	B101-120
207166-06	B101-131
207166-07	B101-140

The 8260C chloroethane matrix spike and laboratory control sample percent recoveries exceeded control limits. The compound was not detected in the samples, therefore the data were considered acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-92	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-01
Date Analyzed:	07/13/12	Data File:	071310.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	104	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-97	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-02
Date Analyzed:	07/13/12	Data File:	071311.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-104	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-03
Date Analyzed:	07/13/12	Data File:	071312.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	104	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-114.5	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-04
Date Analyzed:	07/13/12	Data File:	071313.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	103	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-120	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-05
Date Analyzed:	07/13/12	Data File:	071314.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-131	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-06
Date Analyzed:	07/13/12	Data File:	071315.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-140	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	207166-07
Date Analyzed:	07/13/12	Data File:	071316.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120713, F&BI 207166
Date Extracted:	07/13/12	Lab ID:	02-1220 mb
Date Analyzed:	07/13/12	Data File:	071309.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/23/12
Date Received: 07/13/12
Project: SOU_0797_20120713, F&BI 207166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207166-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	47	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	179 vo	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	68	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	82	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	80	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	84	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	83	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	82	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	85	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	85	20-133

Date of Report: 07/23/12
Date Received: 07/13/12
Project: SOU_0797_20120713, F&BI 207166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	68	68	22-139	0
Chloroethane	mg/kg (ppm)	2.5	180 vo	197 vo	20-153	9
1,1-Dichloroethene	mg/kg (ppm)	2.5	85	86	47-128	1
Methylene chloride	mg/kg (ppm)	2.5	83	87	42-132	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	84	88	67-127	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	95	95	68-115	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	100	72-113	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	95	56-135	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	101	101	62-131	0
Trichloroethene	mg/kg (ppm)	2.5	91	93	68-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	100	101	72-114	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207166

SAMPLE CHAIN OF CUSTODY

ME 07-13-12 1 of 1 VS2

Send Report To Chuck Caccek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 100 Dexter / 0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cvoc's		Notes
B101-92	B101	92	01A-D	7-12-12	0830	Soil	4							X		
B101-97		97	02		0835	Soil	4							X		
B101-104		104	03		1045	Soil	4							X		
B101-114.5		114.5	04		1500	Soil	4							X		
B101-120		120	05		1305	Soil	4							X		
B101-131		131	06		1800	Soil	4							X		
B101-140		140	07		1930	Soil	4							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hunsberger	SES	7-13-12	0843
Received by:	Nhan Phan	FeBI	7/13/12	0843
Relinquished by:				
Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 31, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 18, 2012 from the SOU_0797_20120718, F&BI 207237 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0731R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 18, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120718, F&BI 207237 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207237-01	B102-20
207237-02	B102-30
207237-03	B102-38
207237-04	B102-40
207237-05	B102-49
207237-06	B102-60

The samples B102-40, B102-49, and B102-60 were sent to Aquatic Research for total organic carbon analysis. Review of the enclosed report indicates that all quality assurance were acceptable.

Vinyl chloride failed below the acceptance criteria in the matrix spike sample. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-20	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	207237-01
Date Analyzed:	07/19/12	Data File:	071908.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-30	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	207237-02
Date Analyzed:	07/19/12	Data File:	071909.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-38	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	207237-03
Date Analyzed:	07/19/12	Data File:	071910.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-49	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	207237-05
Date Analyzed:	07/19/12	Data File:	071911.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-60	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	207237-06
Date Analyzed:	07/19/12	Data File:	071912.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120718, F&BI 207237
Date Extracted:	07/19/12	Lab ID:	02-1261 mb2
Date Analyzed:	07/19/12	Data File:	071906.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/31/12
Date Received: 07/18/12
Project: SOU_0797_20120718, F&BI 207237

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207204-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	44 vo	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	53	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	64	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	71	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	75	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	75	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	72	50-150
Trichloroethene	mg/kg (ppm)	2.5	<0.03	72	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	76	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	77	74	36-100	4
Chloroethane	mg/kg (ppm)	2.5	75	75	28-114	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	84	47-121	4
Methylene chloride	mg/kg (ppm)	2.5	92	90	50-134	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	89	47-121	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	95	92	55-117	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	95	66-116	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	96	93	48-127	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	96	57-125	2
Trichloroethene	mg/kg (ppm)	2.5	94	92	64-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	101	98	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	**FBI010-37**	**PAGE 1**	
REPORT DATE:	**07/30/12**		
DATE SAMPLED:	**07/17/12**	**DATE RECEIVED:**	**07/18/12**

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON SOLID SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 207237

CASE NARRATIVE

Three solid samples were received by the laboratory in good condition. Analysis was performed according to the chain of custody received with the samples. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the following page.

SAMPLE DATA

SAMPLE ID	TOC (%)
B102-40	0.71
B102-49	1.44
B102-60	0.33

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	**FBI010-37**	**PAGE 2**	
REPORT DATE:	**07/30/12**		
DATE SAMPLED:	**07/17/12**	**DATE RECEIVED:**	**07/18/12**

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON SOLID SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 207237

QA/QC DATA

QC PARAMETER	TOC (%)
METHOD	EPA 415.1
DATE ANALYZED	07/29/12
DETECTION LIMIT	0.01
DUPLICATE	
SAMPLE ID	BATCH
ORIGINAL	4.96
DUPLICATE	4.47
RPD	10.33%
SPIKE SAMPLE	
SAMPLE ID	
ORIGINAL	
SPIKED SAMPLE	
SPIKE ADDED	
% RECOVERY	NA
QC CHECK	
FOUND	3.26
TRUE	3.35
% RECOVERY	97.22%
BLANK	<0.01

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TOO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
Project Manager

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

FB1010.37

Page # _____ of _____

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTER

PROJECT NAME/NO.	PO #
207237	B860

REMARKS

Please Email Results

TURNAROUND TIME

☒ Standard (2 Weeks)

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☒ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	Dioxins and Furans by 8290	EPH	VPH	Nitrate	Sulfate	Alkalinity	TOC				Notes
B102-40		7/17/12	1229	S	1							X				
B102-49		↓	1230	S	1							X				
B102-60		↓	1445	S	1							X				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Michael Erdahl	Friedman & Bruya	7/18/12	1500
Received by:		S. NIELSEN	ARI	7/18/12	1600
Relinquished by:					
Received by:					

207237

ME 07-18-12

VSI / EO2

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOCs	Total organic carbon	Notes
B102-20	B102	20	01A-D	7/17/12	0935	Soil	4							X		
B102-30	"	30	02A-D	"	1000	Soil	4							X		
B102-38	"	38	03A-D	"	1150	Soil	4							X		
B102-40	"	40	04	"	1229	Soil	1								X	
B102-49	"	49	05 A-E	"	1230	Soil	5							X	X	
B102-60	"	60	06 A-E	"	1445	Soil	5							X	X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Warren Rajkovich	SES	7/18/12	1132
Received by:	S. Osborn	F+B, Inc	7/18/12	11:34
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 26, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 19, 2012 from the SOU_0797_20120719, F&BI 207257 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 19, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120719, F&BI 207257 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207257-01	B102-70

Several 8260C compounds failed below the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-70	Client:	SoundEarth Strategies
Date Received:	07/19/12	Project:	SOU_0797_20120719, F&BI 207257
Date Extracted:	07/20/12	Lab ID:	207257-01
Date Analyzed:	07/21/12	Data File:	072053.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120719, F&BI 207257
Date Extracted:	07/20/12	Lab ID:	02-1266 mb
Date Analyzed:	07/20/12	Data File:	072013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/26/12
Date Received: 07/19/12
Project: SOU_0797_20120719, F&BI 207257

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207257-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	31 vo	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	40 vo	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	40 vo	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	57	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48 vo	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	61	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
Trichloroethene	mg/kg (ppm)	2.5	<0.03	56	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	59	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	79	81	36-100	2
Chloroethane	mg/kg (ppm)	2.5	75	75	28-114	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	89	47-121	3
Methylene chloride	mg/kg (ppm)	2.5	91	95	50-134	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	94	47-121	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	96	55-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	101	66-116	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	97	48-127	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	100	57-125	2
Trichloroethene	mg/kg (ppm)	2.5	93	95	64-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	99	102	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207257

ME 07/19/12

Page 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (Signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NW/TPH-Dx	NW/TPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B102-70	B102	70	01A-D	7-18-12	1000	Soil	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Warren Rajkovich	7/19/12 SES	7/19/12	1246
Received by:		Nhan Pham	FeBI	7/19/12	1246
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 10 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 26, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 20, 2012 from the SOU_0797_20120720, F&BI 207281 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 20, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120720, F&BI 207281 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207281-01	B102-80
207281-02	B102-90

Several 8260C compounds failed below the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-80	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207281
Date Extracted:	07/20/12	Lab ID:	207281-01
Date Analyzed:	07/21/12	Data File:	072054.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-90	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207281
Date Extracted:	07/20/12	Lab ID:	207281-02
Date Analyzed:	07/21/12	Data File:	072055.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120720, F&BI 207281
Date Extracted:	07/20/12	Lab ID:	02-1266 mb
Date Analyzed:	07/20/12	Data File:	072013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/26/12
Date Received: 07/20/12
Project: SOU_0797_20120720, F&BI 207281

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207257-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	31 vo	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	40 vo	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	40 vo	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	57	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48 vo	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	61	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
Trichloroethene	mg/kg (ppm)	2.5	<0.03	56	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	59	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	79	81	36-100	2
Chloroethane	mg/kg (ppm)	2.5	75	75	28-114	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	89	47-121	3
Methylene chloride	mg/kg (ppm)	2.5	91	95	50-134	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	94	47-121	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	96	55-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	101	66-116	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	97	48-127	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	100	57-125	2
Trichloroethene	mg/kg (ppm)	2.5	93	95	64-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	99	102	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207281 ME 07/20/12 Page # 1 of 1 VSI

Send Report to Chuck Cacek
Company SoundEarth Strategies
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle, WA 98102
Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOC's		Notes
B102-S0	B102	S0	01AD	7-19-12	0930	Soil	4							X		
B102-S0	B102	S0	02AD	7-19-12	0935	Soil	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hunsinger	SES	7-20-12	1150
Received by:		Monique Reisinger	PE	7/20	12:45
Relinquished by:					
Received by:		Nhan Phan	FedEx	7/20/12	1330

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 27, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 20, 2012 from the SOU_0797_20120720, F&BI 207288 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0727R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 20, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120720, F&BI 207288 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207288-01	B102-100
207288-02	B102-110

Several 8260C compounds failed below the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-100	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207288
Date Extracted:	07/20/12	Lab ID:	207288-01
Date Analyzed:	07/21/12	Data File:	072056.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-110	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207288
Date Extracted:	07/20/12	Lab ID:	207288-02
Date Analyzed:	07/21/12	Data File:	072057.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120720, F&BI 207288
Date Extracted:	07/20/12	Lab ID:	02-1266 mb
Date Analyzed:	07/20/12	Data File:	072013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/27/12
Date Received: 07/20/12
Project: SOU_0797_20120720, F&BI 207288

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207257-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	31 vo	50-150
Chloroethane	mg/kg (ppm)	2.5	<0.5	40 vo	50-150
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	40 vo	50-150
Methylene chloride	mg/kg (ppm)	2.5	<0.5	57	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48 vo	50-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	61	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	55	50-150
Trichloroethene	mg/kg (ppm)	2.5	<0.03	56	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	59	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	79	81	36-100	2
Chloroethane	mg/kg (ppm)	2.5	75	75	28-114	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	89	47-121	3
Methylene chloride	mg/kg (ppm)	2.5	91	95	50-134	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	94	47-121	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	96	55-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	101	66-116	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	97	48-127	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	100	57-125	2
Trichloroethene	mg/kg (ppm)	2.5	93	95	64-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	99	102	59-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207288

ME 07/20/12

Page # 1 of 1 VSI

Send Report To Chuck Caccia

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOCs		Notes
B102-100	B102	100	ORAD	7/20/12	1330	Soil	4							X		
B102-110	"	110	ORAD	"	1335	Soil	4							X		

7/20/12

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	David Mendel	SES	7/20/12	1800
Seattle, WA 98119-2029	Received by:	Thao Thai	F&BI	7/20/12	15:00
Ph. (206) 285-8282	Relinquished by:				
Fax (206) 283-5044	Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 30, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 24, 2012 from the SOU_0797_20120724, F&BI 207323 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0730R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 24, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120724, F&BI 207323 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207323-01	B102-120

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-120	Client:	SoundEarth Strategies
Date Received:	07/24/12	Project:	SOU_0797_20120724, F&BI 207323
Date Extracted:	07/24/12	Lab ID:	207323-01
Date Analyzed:	07/24/12	Data File:	072416.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120724, F&BI 207323
Date Extracted:	07/24/12	Lab ID:	02-1269 mb
Date Analyzed:	07/24/12	Data File:	072408.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 07/30/12
Date Received: 07/24/12
Project: SOU_0797_20120724, F&BI 207323

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207316-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	41	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	70	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	72	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	69	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	74	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	70	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	67	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	74	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	64	64	22-139	0
Chloroethane	mg/kg (ppm)	2.5	94	88	20-153	7
1,1-Dichloroethene	mg/kg (ppm)	2.5	88	82	47-128	7
Methylene chloride	mg/kg (ppm)	2.5	87	82	42-132	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	82	67-127	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	84	68-115	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	85	72-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	89	86	56-135	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	89	86	62-131	3
Trichloroethene	mg/kg (ppm)	2.5	80	77	68-114	4
Tetrachloroethene	mg/kg (ppm)	2.5	89	86	72-114	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207323

SAMPLE CHAIN OF CUSTODY

ME 07-24-12 VSI

Page 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☑ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
B102-120	B102	120	01A-D	7/23/12	1030	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Warren Rajkovich	SES	7/24/12	1050
Received by:	Do (do)	F+BI	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 26, 2012 from the SOU_0797_20120726, F&BI 207355 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120726, F&BI 207355 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207355-01	B103-10
207355-02	B103-18
207355-03	B103-30
207355-04	B103-40
207355-05	B103-45
207355-06	B103-55

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-10	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-01
Date Analyzed:	07/27/12	Data File:	072631.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-18	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-02
Date Analyzed:	07/27/12	Data File:	072632.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-30	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-03
Date Analyzed:	07/27/12	Data File:	072633.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-40	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-04
Date Analyzed:	07/27/12	Data File:	072634.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.12
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.77
Tetrachloroethene	4.6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-45	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-05
Date Analyzed:	07/27/12	Data File:	072635.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.24
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.48
Tetrachloroethene	5.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-55	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	207355-06
Date Analyzed:	07/27/12	Data File:	072640.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.18
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120726, F&BI 207355
Date Extracted:	07/26/12	Lab ID:	02-1274 mb
Date Analyzed:	07/27/12	Data File:	072630.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/07/12
Date Received: 07/26/12
Project: SOU_0797_20120726, F&BI 207355

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207355-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	24	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	36	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	37	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	54	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	50	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	53	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	57	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	50	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	54	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	52	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	64	67	22-139	5
Chloroethane	mg/kg (ppm)	2.5	69	75	20-153	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	75	81	47-128	8
Methylene chloride	mg/kg (ppm)	2.5	72	82	42-132	13
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	79	87	67-127	10
1,1-Dichloroethane	mg/kg (ppm)	2.5	83	86	68-115	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	84	89	72-113	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	84	89	56-135	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	85	90	62-131	6
Trichloroethene	mg/kg (ppm)	2.5	83	88	68-114	6
Tetrachloroethene	mg/kg (ppm)	2.5	85	90	72-114	6

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207355

SAMPLE CHAIN OF CUSTODY

ME 07-26-12 BEll / V32

Page # 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
B103-10	B103	10	01A-E	7/25/12	1010	Soil	5							X		
B103-18	"	18	02	"	1030	Soil	5							X		
B103-30	"	30	03A-D	"	1335	Soil	4							X		
B103-40	"	40	04	"	1340	Soil	4							X		
B103-45	"	45	05	"	1505	Soil	4							X		
B103-55	"	55	06	"	1525	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Will Camarda	SES	7/26/12	1032
Received by:	Dodd	F&BI	"	"
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 0 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 27, 2012 from the SOU_0797_20120727, F&BI 207401 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120727, F&BI 207401 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207401-01	B103-62.5
207401-02	B103-75
207401-03	B103-83
207401-04	B103-95

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-62.5	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207401
Date Extracted:	07/30/12	Lab ID:	207401-01
Date Analyzed:	07/30/12	Data File:	073012.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-75	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207401
Date Extracted:	07/30/12	Lab ID:	207401-02
Date Analyzed:	07/30/12	Data File:	073014.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-83	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207401
Date Extracted:	07/30/12	Lab ID:	207401-03
Date Analyzed:	07/30/12	Data File:	073015.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.12
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-95	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207401
Date Extracted:	07/30/12	Lab ID:	207401-04
Date Analyzed:	07/30/12	Data File:	073016.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120727, F&BI 207401
Date Extracted:	07/30/12	Lab ID:	02-1323 mb
Date Analyzed:	07/30/12	Data File:	073013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/07/12
Date Received: 07/27/12
Project: SOU_0797_20120727, F&BI 207401

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	38	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	48	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	51	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	67	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	70	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	73	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	66	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	0.086	74	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	72	73	51-102	1
Chloroethane	mg/kg (ppm)	2.5	76	74	53-113	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	83	84	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	90	91	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	89	70-116	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	93	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	95	76-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	93	96	79-114	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	95	73-119	3
Trichloroethene	mg/kg (ppm)	2.5	84	85	70-113	1
Tetrachloroethene	mg/kg (ppm)	2.5	92	96	73-117	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207401 ME 07-27-12

Page # 1 VS 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOC's		Notes
B103-62.5	B103	62.5	01 A-D	7-26-12	1145	Soil	4							X		
B103-75	"	75	02	"	1300	"	4							X		
B103-83	"	83	03	"	1485	"	4							X		
B103-95	"	95	04	"	1515	"	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Warren Rajkovich	SES	7/27/12	1017
Received by:		DD Ho	F&BI	11	11
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 27, 2012 from the SOU_0797_20120727, F&BI 207403 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120727, F&BI 207403 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207403-01	B103-105
207403-02	B103-113

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-105	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207403
Date Extracted:	07/30/12	Lab ID:	207403-01
Date Analyzed:	07/30/12	Data File:	073017.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	94	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-113	Client:	SoundEarth Strategies
Date Received:	07/27/12	Project:	SOU_0797_20120727, F&BI 207403
Date Extracted:	07/30/12	Lab ID:	207403-02
Date Analyzed:	07/30/12	Data File:	073018.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120727, F&BI 207403
Date Extracted:	07/30/12	Lab ID:	02-1323 mb
Date Analyzed:	07/30/12	Data File:	073013.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/07/12
Date Received: 07/27/12
Project: SOU_0797_20120727, F&BI 207403

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	38	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	48	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	51	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	67	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	70	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	73	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	66	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	0.086	74	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	72	73	51-102	1
Chloroethane	mg/kg (ppm)	2.5	76	74	53-113	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	83	84	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	90	91	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	89	70-116	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	93	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	95	76-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	93	96	79-114	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	95	73-119	3
Trichloroethene	mg/kg (ppm)	2.5	84	85	70-113	1
Tetrachloroethene	mg/kg (ppm)	2.5	92	96	73-117	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207403

SAMPLE CHAIN OF CUSTODY ME 07-27-12

VSI

Page # 1 of

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter /0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
B103-105	B103	105	01A-D	7/27/12	0845	Soil	4							X		
B103-113	1	113	02A-D	1	0945	Soil	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hurshman	SES	7-27-12	1035
Received by:	Dave	Dave	FYBI	11	11
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 31, 2012 from the SOU_0797_20120731, F&BI 207438 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 31, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120731, F&BI 207438 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207438-01	B104-10
207438-02	B104-20
207438-03	B104-30
207438-04	B104-35
207438-05	B104-50

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-10	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	207438-01
Date Analyzed:	07/31/12	Data File:	073105.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-20	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	207438-02
Date Analyzed:	07/31/12	Data File:	073106.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-30	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	207438-03
Date Analyzed:	07/31/12	Data File:	073108.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.14
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.086
Tetrachloroethene	1.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-35	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	207438-04
Date Analyzed:	07/31/12	Data File:	073109.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.099
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.23
Tetrachloroethene	7.1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-50	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	207438-05
Date Analyzed:	07/31/12	Data File:	073107.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120731, F&BI 207438
Date Extracted:	07/31/12	Lab ID:	02-1323 mb2
Date Analyzed:	07/31/12 11:04	Data File:	073104.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	94	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/07/12
Date Received: 07/31/12
Project: SOU_0797_20120731, F&BI 207438

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	38	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	48	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	51	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	67	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	70	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	73	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	66	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	0.086	74	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	72	73	51-102	1
Chloroethane	mg/kg (ppm)	2.5	76	74	53-113	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	83	84	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	90	91	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	89	70-116	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	93	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	95	76-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	93	96	79-114	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	95	73-119	3
Trichloroethene	mg/kg (ppm)	2.5	84	85	70-113	1
Tetrachloroethene	mg/kg (ppm)	2.5	92	96	73-117	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

~~207348~~ (ND) 207438

SAMPLE CHAIN OF CUSTODY ME 07/31/12

Page # 1 of 1 VSI

Send Report To Chuck Caceik

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Denny 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cvoc's		Notes
B104-10	B104	10	01A-D	7-30-12	1015	Soil	4							X		
B104-20	B104	20	02		1115	Soil	4							X		
B104-30	B104	30	03		1135	Soil	4							X		
B104-35	B104	35	04		1205	Soil	4							X		
B104-50	B104	50	05		1520	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hunsberger	SES	7-31-12	0835
Received by:	Nhan Phan	FEBT	7-31-12	0835
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 9, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 1, 2012 from the SOU_0797_20120801, F&BI 208013 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0809R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 1, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120801, F&BI 208013 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208013-01	B104-60
208013-02	B104-69
208013-03	B104-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-60	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208013
Date Extracted:	08/01/12	Lab ID:	208013-01
Date Analyzed:	08/07/12	Data File:	080719.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.12
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.21
Tetrachloroethene	2.1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-69	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208013
Date Extracted:	08/01/12	Lab ID:	208013-02
Date Analyzed:	08/07/12	Data File:	080720.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-80	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208013
Date Extracted:	08/01/12	Lab ID:	208013-03
Date Analyzed:	08/07/12	Data File:	080721.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.12

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120801, F&BI 208013
Date Extracted:	08/01/12	Lab ID:	02-1328 mb
Date Analyzed:	08/07/12	Data File:	080716.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/09/12
Date Received: 08/01/12
Project: SOU_0797_20120801, F&BI 208013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	51	52	51-102	2
Chloroethane	mg/kg (ppm)	2.5	67	69	53-113	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	77	77	67-116	0
Methylene chloride	mg/kg (ppm)	2.5	87	88	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	81	82	70-116	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	85	85	79-109	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	89	76-113	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	90	92	79-114	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	90	92	73-119	2
Trichloroethene	mg/kg (ppm)	2.5	88	92	70-113	4
Tetrachloroethene	mg/kg (ppm)	2.5	95	95	73-117	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208013

SAMPLE CHAIN OF CUSTODY

ME 08/01/12 VSI

Page 1 of 1

Send Report To Chuck Caccek

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306 1900 Fax # 206 306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Tw Harbor 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B104-60	B104	60	01A-D	7-31-12	1000	Soil	4							X		
B104-~~70~~ 69	B104	69	02	7-31-12	1245	Soil	4							X		
B104-80	B104	80	03	7-31-12	1245	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chuck Caccek	SES		
Received by:	SHAVA	PERC	8/1/12	12:05
Relinquished by:	A. POSNOVA	FBI	8/1/12	12:25
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 9, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 2, 2012 from the SOU_0797_20120802, F&BI 208025 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0809R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 2, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120802, F&BI 208025 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208025-01	B104-90
208025-02	B104-100
208025-03	B104-110
208025-04	B104-120
208025-05	B104-130

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-90	Client:	SoundEarth Strategies
Date Received:	08/02/12	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	208025-01
Date Analyzed:	08/02/12	Data File:	080226.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-100	Client:	SoundEarth Strategies
Date Received:	08/02/12	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	208025-02
Date Analyzed:	08/02/12	Data File:	080227.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-110	Client:	SoundEarth Strategies
Date Received:	08/02/12	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	208025-03
Date Analyzed:	08/03/12	Data File:	080236.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-120	Client:	SoundEarth Strategies
Date Received:	08/02/12	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	208025-04
Date Analyzed:	08/03/12	Data File:	080237.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-130	Client:	SoundEarth Strategies
Date Received:	08/02/12	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	208025-05
Date Analyzed:	08/03/12	Data File:	080238.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120802, F&BI 208025
Date Extracted:	08/02/12	Lab ID:	02-1330 mb
Date Analyzed:	08/02/12	Data File:	080220.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/09/12
Date Received: 08/02/12
Project: SOU_0797_20120802, F&BI 208025

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208022-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	38	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	64	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	65	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	68	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	76	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	76	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	73	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	75	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	74	61	22-139	19
Chloroethane	mg/kg (ppm)	2.5	92	79	20-153	15
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	73	47-128	16
Methylene chloride	mg/kg (ppm)	2.5	81	70	42-132	15
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	75	67-127	16
1,1-Dichloroethane	mg/kg (ppm)	2.5	95	83	68-115	13
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	85	72-113	13
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	97	87	56-135	11
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	107	93	62-131	14
Trichloroethene	mg/kg (ppm)	2.5	88	79	68-114	11
Tetrachloroethene	mg/kg (ppm)	2.5	102	89	72-114	14

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208025

SAMPLE CHAIN OF CUSTODY

ME 08/02/12 VS1

Send Report To Chuck Carlock

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0997

PO #

REMARKS

GEMS Y / N

Page # 1 of

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOC's		Notes
B104-90	B104	90	01A-D	8-1-12	0915	Soil	4							X		
B104-100	B104	100	02	8-1-12	1015	Soil	4							X		
B104-110	B104	110	03	8-1-12	1145	Soil	4							X		
B104-120	B104	120	04	8-1-12	1225	Soil	4							X		
B104-130	B104	130	05	8-1-12	1300 ~~1245~~	Soil	4							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	8/2/12	0800
Received by:	Nhan Phan	FEBI	8/2/12	0800
Relinquished by:				
Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 7, 2012 from the SOU_0797_20120807 F&BI 208077 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 7, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120807 F&BI 208077 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208077-01	B105-10
208077-02	B105-20
208077-03	B105-30

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-10	Client:	SoundEarth Strategies
Date Received:	08/07/12	Project:	SOU_0797_20120807 F&BI 208077
Date Extracted:	08/08/12	Lab ID:	208077-01
Date Analyzed:	08/10/12	Data File:	080945.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-20	Client:	SoundEarth Strategies
Date Received:	08/07/12	Project:	SOU_0797_20120807 F&BI 208077
Date Extracted:	08/08/12	Lab ID:	208077-02
Date Analyzed:	08/10/12	Data File:	080946.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-30	Client:	SoundEarth Strategies
Date Received:	08/07/12	Project:	SOU_0797_20120807 F&BI 208077
Date Extracted:	08/08/12	Lab ID:	208077-03
Date Analyzed:	08/10/12	Data File:	080947.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.086
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.16
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120807 F&BI 208077
Date Extracted:	08/08/12	Lab ID:	02-1374 mb
Date Analyzed:	08/09/12	Data File:	080904.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/07/12
Project: SOU_0797_20120807 F&BI 208077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208100-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	43	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	63	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	64	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	69	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	70	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	75	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	81	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	85	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	101	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	81	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	59	59	22-139	0
Chloroethane	mg/kg (ppm)	2.5	80	87	20-153	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	74	78	47-128	5
Methylene chloride	mg/kg (ppm)	2.5	76	78	42-132	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	77	80	67-127	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	82	96	68-115	16
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	83	96	72-113	15
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	87	103	56-135	17
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	110	62-131	18
Trichloroethene	mg/kg (ppm)	2.5	76	89	68-114	16
Tetrachloroethene	mg/kg (ppm)	2.5	85	102	72-114	18

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208077

SAMPLE CHAIN OF CUSTODY

ME 08/07/12

Page # 1 of 1 VSI

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 0797/700 Dexter

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOCs		Notes
B105-10	B105	10	01A-D	8/6/12	0800	Soil	4							X		
B105-20	"	20	02A-D	"	0825	"	"							X		
B105-30	"	30	03A-D	"	0925	"	"							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Henderson	SES	8-7-12	0805
Received by:		Nhan Phan	FedEx	8/7/12	0805
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 9, 2012 from the SOU_0797_20120809, F&BI 208118 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 9, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120809, F&BI 208118 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208118-01	B105-40
208118-02	B105-50

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-40	Client:	SoundEarth Strategies
Date Received:	08/09/12	Project:	SOU_0797_20120809, F&BI 208118
Date Extracted:	08/09/12	Lab ID:	208118-01
Date Analyzed:	08/10/12	Data File:	080951.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.22
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-50	Client:	SoundEarth Strategies
Date Received:	08/09/12	Project:	SOU_0797_20120809, F&BI 208118
Date Extracted:	08/09/12	Lab ID:	208118-02
Date Analyzed:	08/10/12	Data File:	080952.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	62	142
Toluene-d8	98	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.040
Tetrachloroethene	0.18

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120809, F&BI 208118
Date Extracted:	08/09/12	Lab ID:	02-1375 mb
Date Analyzed:	08/09/12	Data File:	080924.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	97	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/09/12
Project: SOU_0797_20120809, F&BI 208118

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208116-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	30	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	49	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	51	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	61	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	62	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	66	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	68	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	65	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	71	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	57	58	22-139	2
Chloroethane	mg/kg (ppm)	2.5	81	74	20-153	9
1,1-Dichloroethene	mg/kg (ppm)	2.5	74	72	47-128	3
Methylene chloride	mg/kg (ppm)	2.5	72	69	42-132	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	79	77	67-127	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	83	80	68-115	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	82	72-113	4
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	83	56-135	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	94	91	62-131	3
Trichloroethene	mg/kg (ppm)	2.5	81	77	68-114	5
Tetrachloroethene	mg/kg (ppm)	2.5	89	85	72-114	5

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208118

SAMPLE CHAIN OF CUSTODY

ME 08-09-12 VSI

Page # 1 of 1

Send Report To Chuck Cacek

Company Soundearth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS *(signature)*	
PROJECT NAME/NO. 700 Dexter/0797	PO #
REMARKS	GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B105-40	B105	40	81A-D	8-8-12	1405	S.1	4							X		
B105-50	B105	50		8-8-12	1520	S.1	4							X		

8/8/12

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	David Mindel	SES	8/9/12	0805
Seattle, WA 98119-2029	Received by: S. Osborn	S. Osborn	FB, Inc	8/9/12	08:05
Ph. (206) 285-8282	Relinquished by:				
Fax (206) 283-5044	Received by:		Samples received at 13 °C		

FORMS\COC\SESGEMSR1.DOC (Revision 1)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 10, 2012 from the SOU_0797_20120810, F&BI 208133 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120810, F&BI 208133 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208133-01	B105-60
208133-02	B105-70
208133-03	B105-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-60	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208133
Date Extracted:	08/13/12	Lab ID:	208133-01
Date Analyzed:	08/13/12	Data File:	081310.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-70	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208133
Date Extracted:	08/13/12	Lab ID:	208133-02
Date Analyzed:	08/13/12	Data File:	081311.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-80	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208133
Date Extracted:	08/13/12	Lab ID:	208133-03
Date Analyzed:	08/14/12	Data File:	081425.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120810, F&BI 208133
Date Extracted:	08/13/12	Lab ID:	02-1378 mb
Date Analyzed:	08/13/12	Data File:	081309.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/10/12
Project: SOU_0797_20120810, F&BI 208133

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208157-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	51	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	62	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	75	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	80	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	81	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	79	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	75	74	51-102	1
Chloroethane	mg/kg (ppm)	2.5	79	79	53-113	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	88	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	87	86	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	93	70-116	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	92	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	96	76-113	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	94	79-114	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	99	98	73-119	1
Trichloroethene	mg/kg (ppm)	2.5	97	95	70-113	2
Tetrachloroethene	mg/kg (ppm)	2.5	99	96	73-117	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208133

SAMPLE CHAIN OF CUSTODY

ME 08-10-12 VS1

Page # 1 of 1

Send Report To Chuck Caçek

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOC'S		Notes
								ANALYSES REQUESTED								
B105-60	B105	60	01A	8-9-12	0930	Soil	4							X		
B105-70	"	70	02	"	1100	"	"							X		
B105-80	"	80	03	"	1200	"	"							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert a Hiller	SES	8-10-12	0755
Received by:		S. Oborn	FRIBS, Inc	8/10/12	07:55
Relinquished by:					
Received by:			Samples received at 13 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 10, 2012 from the SOU_0797_20120810, F&BI 208157 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120810, F&BI 208157 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208157-01	B105-90
208157-02	B105-100
208157-03	B105-110
208157-04	B105-120
208157-05	B105-130
208157-06	B105-138

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-90	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-01
Date Analyzed:	08/16/12	Data File:	081611.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-100	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-02
Date Analyzed:	08/13/12	Data File:	081330.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-110	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-03
Date Analyzed:	08/14/12	Data File:	081331.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-120	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-04
Date Analyzed:	08/14/12	Data File:	081332.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-130	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-05
Date Analyzed:	08/14/12	Data File:	081333.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-138	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	208157-06
Date Analyzed:	08/14/12	Data File:	081428.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120810, F&BI 208157
Date Extracted:	08/13/12	Lab ID:	02-1378 mb
Date Analyzed:	08/13/12	Data File:	081309.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/10/12
Project: SOU_0797_20120810, F&BI 208157

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208157-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	51	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	62	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	75	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	80	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	81	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	79	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	75	74	51-102	1
Chloroethane	mg/kg (ppm)	2.5	79	79	53-113	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	88	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	87	86	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	93	70-116	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	92	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	96	76-113	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	94	79-114	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	99	98	73-119	1
Trichloroethene	mg/kg (ppm)	2.5	97	95	70-113	2
Tetrachloroethene	mg/kg (ppm)	2.5	99	96	73-117	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208157

SAMPLE CHAIN OF CUSTODY

ME 08-10-12 VB2

Page # 1 of 1

Send Report To: Chuck Cacek
Company: SandEarth Strategies
Address: 2811 Fairview Ave E Suite 2000
City, State, ZIP: Seattle, WA 98102
Phone #: 206.306.1900 Fax #: 206.306.1907

SAMPLERS (signature):

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B105-90	B105	90	01A-D	8-10-12	0850	S.L	4							X		
B105-100		100	02		0945									X		
B105-110		110	03		1055									X		
B105-120		120	04		1145		4							X		
B105-130		130	05		1250		4							X		
B105-138		138	06		1400		4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert H. Hunsberger	SES	8-10-12	1425
Received by:	DO VO	F & BI	11	11
Relinquished by:				
Received by:		Samples received at		5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 15, 2012 from the SOU_0797_20120815, F&BI 208196 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 15, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120815, F&BI 208196 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208196-01	B106-10
208196-02	B106-20
208196-03	B106-30
208196-04	B106-40
208196-05	B106-50
208196-06	B106-60
208196-07	B106-70
208196-08	B106-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-10	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-01
Date Analyzed:	08/15/12	Data File:	081527.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-20	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-02
Date Analyzed:	08/15/12	Data File:	081528.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-30	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-03
Date Analyzed:	08/15/12	Data File:	081529.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.038

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-40	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-04
Date Analyzed:	08/16/12	Data File:	081530.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.15
Tetrachloroethene	3.1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-50	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-05
Date Analyzed:	08/16/12	Data File:	081531.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.11
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.17
Tetrachloroethene	0.73

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-60	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-06
Date Analyzed:	08/16/12	Data File:	081532.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-70	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-07
Date Analyzed:	08/16/12	Data File:	081609.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-80	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	208196-08
Date Analyzed:	08/16/12	Data File:	081610.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120815, F&BI 208196
Date Extracted:	08/15/12	Lab ID:	02-1385 mb
Date Analyzed:	08/16/12	Data File:	081604.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/15/12
Project: SOU_0797_20120815, F&BI 208196

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208196-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	44	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	50	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	63	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	59	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	62	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	68	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	66	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	65	35-102
Trichloroethene	mg/kg (ppm)	2.5	<0.03	70	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	68	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	65	59	51-102	10
Chloroethane	mg/kg (ppm)	2.5	67	64	53-113	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	77	73	67-116	5
Methylene chloride	mg/kg (ppm)	2.5	80	75	62-130	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	78	70-116	9
1,1-Dichloroethane	mg/kg (ppm)	2.5	86	80	79-109	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	90	86	76-113	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	91	84	79-114	8
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	91	83	73-119	9
Trichloroethene	mg/kg (ppm)	2.5	90	85	70-113	6
Tetrachloroethene	mg/kg (ppm)	2.5	91	83	73-117	9

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208196

SAMPLE CHAIN OF CUSTODY ME 08-15-12

VS2

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOC'S		Notes
B106-10	B106	10	01A-D	~~8-14-12~~	1000	Soil	4							X		
B106-20		20	02		1040	Soil	4							X		
B106-30		30	03		1150	Soil	4							X		
B106-40		40	04		1325	Soil	4							X		
B106-50		50	05		1350	Soil	4							X		
B106-60		60	06		1545	Soil	4							X		
B106-70		70	07	8-15-12	~~0845~~ 0930	Soil	4							X		
B106-80		80	08		1010	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mandel	SES	8/15/12	1030
Received by:	DO	F+BE	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 16, 2012 from the SOU_0797_20120816, F&BI 208224 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 16, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120816, F&BI 208224 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208224-01	B106-90
208224-02	B106-100
208224-03	B106-110
208224-04	B106-120
208224-05	B106-130
208224-06	B106-140

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-90	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-01
Date Analyzed:	08/16/12	Data File:	081621.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-100	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-02
Date Analyzed:	08/16/12	Data File:	081622.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-110	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-03
Date Analyzed:	08/16/12	Data File:	081623.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-120	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-04
Date Analyzed:	08/16/12	Data File:	081624.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-130	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-05
Date Analyzed:	08/16/12	Data File:	081625.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-140	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	208224-06
Date Analyzed:	08/16/12	Data File:	081626.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120816, F&BI 208224
Date Extracted:	08/16/12	Lab ID:	02-1385 mb2
Date Analyzed:	08/16/12	Data File:	081620.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 08/17/12
Date Received: 08/16/12
Project: SOU_0797_20120816, F&BI 208224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208214-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	44	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	52	10-97
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	16-100
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	34-108
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	19-102
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	71	37-97
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	75	41-101
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	75	43-98
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	73	35-102
Trichloroethene	mg/kg (ppm)	2.5	0.18	67	38-101
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	74	38-102

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	77	77	51-102	0
Chloroethane	mg/kg (ppm)	2.5	79	79	53-113	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	89	90	67-116	1
Methylene chloride	mg/kg (ppm)	2.5	88	89	62-130	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	97	70-116	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	93	95	79-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	100	76-113	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	97	79-114	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	97	100	73-119	3
Trichloroethene	mg/kg (ppm)	2.5	99	100	70-113	1
Tetrachloroethene	mg/kg (ppm)	2.5	98	97	73-117	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208224

SAMPLE CHAIN OF CUSTODY

08-16-12

V82

Page # 1 of 1

Send Report To Chuck Carrick

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME

- ☑ Standard (2 Weeks)
- ☑ RUSH 48 hr.

Rush charges authorized by:

SAMPLE DISPOSAL

- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B106-90	B106	90	01A-D	8-15-12	1245	Soil	4							X		
B106-100	B106	100	02		1400	Soil	4							X		
B106-110	B106	110	03		1435	Soil	4							X		
B106-120	B106	120	04		1530	Soil	4							X		
B106-130	B106	130	05		1640	Soil	4							X		
B106-140	B106	140	06		1800	Soil	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	8/16/12	1220
Received by:	HONG NGUYEN	FBI	"	"
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 12 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 11, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 4, 2012 from the SOU_0797-001_20121204, F&BI 212044 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU1211R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 4, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001_20121204, F&BI 212044 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212044-01	B107-05
212044-02	B107-15
212044-03	B107-25
212044-04	B107-35
212044-05	B107-45

All quality control requirements were acceptable.

Date of Report: 12/11/12
Date Received: 12/04/12
Project: SOU_0797-001_20121204, F&BI 212044
Date Extracted: 12/04/12
Date Analyzed: 12/05/12

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
B107-05 212044-01	<2	101
B107-15 212044-02	<2	102
B107-25 212044-03	<2	98
B107-35 212044-04	<2	102
B107-45 212044-05	<2	100
Method Blank 02-2208 MB	<2	86

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-05	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-01
Date Analyzed:	12/06/12	Data File:	120616.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-15	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-02
Date Analyzed:	12/06/12	Data File:	120617.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-25	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-03
Date Analyzed:	12/06/12	Data File:	120618.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.060
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.063
Tetrachloroethene	0.60

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-35	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-04
Date Analyzed:	12/06/12	Data File:	120620.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.37
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.59
Tetrachloroethene	20 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-35	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-04 1/10
Date Analyzed:	12/06/12	Data File:	120614.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.3
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	0.60
Tetrachloroethene	19

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B107-45	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	212044-05
Date Analyzed:	12/06/12	Data File:	120619.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.028

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797-001_20121204, F&BI 212044
Date Extracted:	12/05/12	Lab ID:	02-2159 mb
Date Analyzed:	12/06/12	Data File:	120605.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/11/12
Date Received: 12/04/12
Project: SOU_0797-001_20121204, F&BI 212044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 211501-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	100	71-131

Date of Report: 12/11/12
Date Received: 12/04/12
Project: SOU_0797-001_20121204, F&BI 212044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212045-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	36	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	48	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	69	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	0.31	68	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	71	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	27-112
Benzene	mg/kg (ppm)	2.5	<0.03	70	26-114
Trichloroethene	mg/kg (ppm)	2.5	0.21	70	30-112
Toluene	mg/kg (ppm)	2.5	<0.05	73	34-112
Tetrachloroethene	mg/kg (ppm)	2.5	3.4	20 b	32-107
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	74	39-111
m,p-Xylene	mg/kg (ppm)	5	<0.1	75	40-111
o-Xylene	mg/kg (ppm)	2.5	<0.05	74	40-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	86	86	42-107	0
Chloroethane	mg/kg (ppm)	2.5	77	78	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	96	65-110	0
Methylene chloride	mg/kg (ppm)	2.5	104	103	62-119	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	101	71-113	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	102	101	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	103	77-110	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	100	100	80-109	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	108	106	72-116	2
Benzene	mg/kg (ppm)	2.5	100	99	75-107	1
Trichloroethene	mg/kg (ppm)	2.5	101	100	72-107	1
Toluene	mg/kg (ppm)	2.5	104	103	79-112	1
Tetrachloroethene	mg/kg (ppm)	2.5	106	104	77-110	2
Ethylbenzene	mg/kg (ppm)	2.5	104	103	81-114	1
m,p-Xylene	mg/kg (ppm)	5	106	103	82-115	3
o-Xylene	mg/kg (ppm)	2.5	105	103	81-116	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212044

SAMPLE CHAIN OF CUSTODY

ME 12-04-12

BT1 / VS1

Send Report To C. Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797-001

PO #

REMARKS

GEMS Y / N

Page # 1 of

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH 48hr.

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chlorinated Solvents	HVOC's + BTEX	Notes
B107-05	B107	05	01AE	12-3-12	1000	Soil	5		X						X	~~Hold~~
B107-15		15	02		1015	Soil	5		X						X	~~Hold~~
B107-25		25	03		1025	Soil	5		X						X	~~Hold~~
B107-35		35	04		1040	Soil	5		X						X	~~Hold~~
B107-45		45	05		1100	Soil	5		X						X	~~Hold~~

Samples received at 2 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Charles Cacek	SES	12/4/12	12:39
Received by:	Roberto Martinez	Postal Ex	12-4-12	1239
Relinquished by:				
Received by:	Nhan Phan	FEBT	12/4/12	1315

FORMS\COC\SESGEMSR1.DOC (Revision 1)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 10, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 4, 2012 from the SOU_0797_20121204, F&BI 212045 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU1210R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 4, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121204, F&BI 212045 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212045-01	B110-05
212045-02	B110-15
212045-03	B110-25
212045-04	B110-35
212045-05	B110-45
212045-06	B109-05
212045-07	B109-15
212045-08	B109-25
212045-09	B109-35
212045-10	B109-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B110-15	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-02
Date Analyzed:	12/06/12	Data File:	120607.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B110-25	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-03
Date Analyzed:	12/06/12	Data File:	120608.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B110-35	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-04
Date Analyzed:	12/06/12	Data File:	120609.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.31
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.21
Tetrachloroethene	3.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B110-45	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-05
Date Analyzed:	12/06/12	Data File:	120610.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B109-15	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-07
Date Analyzed:	12/06/12	Data File:	120611.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B109-25	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-08
Date Analyzed:	12/06/12	Data File:	120612.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B109-35	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-09
Date Analyzed:	12/06/12	Data File:	120606.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B109-45	Client:	SoundEarth Strategies
Date Received:	12/04/12	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	212045-10
Date Analyzed:	12/06/12	Data File:	120613.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.15
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.94
Tetrachloroethene	1.6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121204, F&BI 212045
Date Extracted:	12/05/12	Lab ID:	02-2159 mb
Date Analyzed:	12/06/12	Data File:	120605.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/10/12
Date Received: 12/04/12
Project: SOU_0797_20121204, F&BI 212045

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212045-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	36	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	48	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	69	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	0.31	68	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	71	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	27-112
Trichloroethene	mg/kg (ppm)	2.5	0.21	70	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	3.4	20 b	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	86	86	42-107	0
Chloroethane	mg/kg (ppm)	2.5	77	78	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	96	65-110	0
Methylene chloride	mg/kg (ppm)	2.5	104	103	62-119	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	101	71-113	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	102	101	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	103	77-110	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	100	100	80-109	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	108	106	72-116	2
Trichloroethene	mg/kg (ppm)	2.5	101	100	72-107	1
Tetrachloroethene	mg/kg (ppm)	2.5	106	104	77-110	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212045

SAMPLE CHAIN OF CUSTODY

ME 12-04-12

E03 / E53

Page # 1 of

Send Report To Chuck Carr

Company SFS

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr TAT per cc 12/4/12 mc
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	cVOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chlorinated Solvents		Notes
B110-05	B110	05	01A-E	12-4-12	0900	Soil	5									X analyze as marked per cc 12/4/12 mc Hold
B110-15	"	15	02	"	0905	Soil	5				X					Hold
B110-25	"	25	03	"	0915	Soil	5				X					Hold
B110-35	"	35	04	"	0930	Soil	5				X					Hold
B110-45	"	45	05	"	0945	Soil	5				X					Hold
B109-05	B109	05	06	"	1115	Soil	5									Hold
B109-15	"	15	07	"	1125	Soil	5				X					Hold
B109-25	"	25	08	"	1130	Soil	5				X					Hold
B109-35	"	35	09	"	1140	Soil	5				X					Hold
B109-45	"	45	10	"	1200	Soil	5				X					Hold

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hursburgh	SFS	12-4-12	1300
Received by:		VINH	FBI	12/4/12	1300
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

December 13, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 6, 2012 from the SOU_0797_20121206, F&BI 212085 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1213R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 6, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121206, F&BI 212085 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212085-01	B111-60
212085-02	B111-70
212085-03	B111-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-60	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212085
Date Extracted:	12/10/12	Lab ID:	212085-01
Date Analyzed:	12/10/12	Data File:	121027.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.085

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-70	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212085
Date Extracted:	12/10/12	Lab ID:	212085-02
Date Analyzed:	12/10/12	Data File:	121028.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.033

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-80	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212085
Date Extracted:	12/10/12	Lab ID:	212085-03
Date Analyzed:	12/10/12	Data File:	121029.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121206, F&BI 212085
Date Extracted:	12/10/12	Lab ID:	02-2244 mb
Date Analyzed:	12/10/12	Data File:	121015.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/13/12
Date Received: 12/06/12
Project: SOU_0797_20121206, F&BI 212085

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212136-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	61	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	66	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	62	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	63	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	67	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	84	82	42-107	2
Chloroethane	mg/kg (ppm)	2.5	77	76	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	93	65-110	3
Methylene chloride	mg/kg (ppm)	2.5	112	108	62-119	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	100	71-113	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	98	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	101	77-110	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	98	80-109	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	105	72-116	0
Trichloroethene	mg/kg (ppm)	2.5	99	99	72-107	0
Tetrachloroethene	mg/kg (ppm)	2.5	106	102	77-110	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212085

SAMPLE CHAIN OF CUSTODY

ME 12-06-12 1 E02/V81

Page # 1 of

Send Report To Chuck Cecil

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. new Dayton 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	chlorinated solvents		Notes: X-perc 12/10/10 mc.
B11-60	B11-	60	01A	12-6-12	1020	Soil	5							X		~~Hold~~
B11-70	B11	70	02	"	1040	Soil	5							X		~~Hold~~
B11-80	B11	80	03	"	1115	Soil	5							X		~~Hold~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hunsberger	SES	12-6-12	1140
Received by:	S. Okoma	FHB, Inc	12/6/12	1140
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 21, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 6, 2012 from the SOU_0797_20121206, F&BI 212103 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU1221R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 6, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121206, F&BI 212103 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212103-01	B111-10
212103-02	B111-20
212103-03	B111-30
212103-04	B111-38
212103-05	B111-50

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-10	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	212103-01
Date Analyzed:	12/17/12	Data File:	121719.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.1
Chloroethane	<1
1,1-Dichloroethene	<0.1
Methylene chloride	<1
trans-1,2-Dichloroethene	<0.1
1,1-Dichloroethane	<0.1
cis-1,2-Dichloroethene	<0.1
1,2-Dichloroethane (EDC)	<0.1
1,1,1-Trichloroethane	<0.1
Trichloroethene	<0.06
Tetrachloroethene	<0.05

Note: The reporting limits are raised due to high moisture content.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-20	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	212103-02
Date Analyzed:	12/17/12	Data File:	121720.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	99	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-30	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	212103-03
Date Analyzed:	12/17/12	Data File:	121721.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-38	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	212103-04
Date Analyzed:	12/17/12	Data File:	121722.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.28
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.40
Tetrachloroethene	0.078

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B111-50	Client:	SoundEarth Strategies
Date Received:	12/06/12	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	212103-05
Date Analyzed:	12/17/12	Data File:	121723.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	97	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.11
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.56
Tetrachloroethene	1.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121206, F&BI 212103
Date Extracted:	12/17/12	Lab ID:	02-2300 mb
Date Analyzed:	12/17/12	Data File:	121705.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/21/12
Date Received: 12/06/12
Project: SOU_0797_20121206, F&BI 212103

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212285-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	76	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	59	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	72	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	63	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	55	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	100	102	22-139	2
Chloroethane	mg/kg (ppm)	2.5	96	97	20-153	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	104	104	47-128	0
Methylene chloride	mg/kg (ppm)	2.5	96	94	42-132	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	99	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	102	101	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	99	72-113	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	105	104	56-135	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	104	62-131	1
Trichloroethene	mg/kg (ppm)	2.5	95	95	68-114	0
Tetrachloroethene	mg/kg (ppm)	2.5	105	105	72-114	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212103

SAMPLE CHAIN OF CUSTODY

ME 12/06/12

Page # 1 of 1

Send Report To Chuck Cacek

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 720 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	HVOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chromium		Notes
								ANALYSES REQUESTED								X per cc 12/17/12 ag
B111-10	B111	10	-01A-D	12-5-12	1000	Soil	5				X					~~total~~
B111-20	B111	20	-02A-D	"	1010	Soil	5				X					~~total~~
B111-30	B111	30	-03A-D	"	1015	Soil	5				X					~~total~~
B111-38	B111	38	-04A-D	"	1035	Soil	5				X					~~total~~
B111-50	B111	50	-05A-D	"	1100	Soil	5				X					~~total~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Charles Cacek	SES	12/6/12	15:35
Received by:	HONG NGUYEN	FBI	12/6/12	
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 13, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 7, 2012 from the SOU_0797_20121207, F&BI 212136 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1213R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 7, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121207, F&BI 212136 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212136-01	B116-15
212136-02	B116-25
212136-03	B116-35
212136-04	B116-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B116-15	Client:	SoundEarth Strategies
Date Received:	12/07/12	Project:	SOU_0797_20121207, F&BI 212136
Date Extracted:	12/10/12	Lab ID:	212136-01
Date Analyzed:	12/10/12	Data File:	121023.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B116-25	Client:	SoundEarth Strategies
Date Received:	12/07/12	Project:	SOU_0797_20121207, F&BI 212136
Date Extracted:	12/10/12	Lab ID:	212136-02
Date Analyzed:	12/10/12	Data File:	121024.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B116-35	Client:	SoundEarth Strategies
Date Received:	12/07/12	Project:	SOU_0797_20121207, F&BI 212136
Date Extracted:	12/10/12	Lab ID:	212136-03
Date Analyzed:	12/10/12	Data File:	121025.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B116-45	Client:	SoundEarth Strategies
Date Received:	12/07/12	Project:	SOU_0797_20121207, F&BI 212136
Date Extracted:	12/10/12	Lab ID:	212136-04
Date Analyzed:	12/10/12	Data File:	121026.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121207, F&BI 212136
Date Extracted:	12/10/12	Lab ID:	02-2244 mb
Date Analyzed:	12/10/12	Data File:	121015.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/13/12
Date Received: 12/07/12
Project: SOU_0797_20121207, F&BI 212136

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212136-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	61	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	66	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	62	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	63	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	67	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	84	82	42-107	2
Chloroethane	mg/kg (ppm)	2.5	77	76	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	93	65-110	3
Methylene chloride	mg/kg (ppm)	2.5	112	108	62-119	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	100	71-113	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	98	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	101	77-110	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	98	80-109	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	105	72-116	0
Trichloroethene	mg/kg (ppm)	2.5	99	99	72-107	0
Tetrachloroethene	mg/kg (ppm)	2.5	106	102	77-110	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

~~212186 MP~~ 212136 **SAMPLE CHAIN OF CUSTODY** ME 12-07-12 1 E02 / V3 1

Page # 1 of 1

Send Report To Chuck Carroll

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Tow Dodger 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chlorinated Solvents		Notes: X perc 12/7/12 ok
B116-15	B116	15	01 A-E	12-7-12	1000	Soil	5							X		~~Hold~~
B116-25	"	25	02	12-7-12	1010	Soil	5							X		~~Hold~~
B116-35	"	35	03	12-7-12	1020	Soil	5							X		~~Hold~~
B116-45	"	45	04	12-7-12	1035	Soil	5							X		~~Hold~~

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hunsberger	SES	12-7-12	1440
Received by:		Nhan Phan	FEBT	12/7/12	1440
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 14, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 10, 2012 from the SOU_0797_20121210, F&BI 212138 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1214R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121210, F&BI 212138 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212138-01	B114-15
212138-02	B114-25
212138-03	B114-35
212138-04	B114-40
212138-05	B114-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B114-15	Client:	SoundEarth Strategies
Date Received:	12/10/12	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/10/12	Lab ID:	212138-01
Date Analyzed:	12/11/12	Data File:	121038.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B114-25	Client:	SoundEarth Strategies
Date Received:	12/10/12	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/10/12	Lab ID:	212138-02
Date Analyzed:	12/11/12	Data File:	121039.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B114-35	Client:	SoundEarth Strategies
Date Received:	12/10/12	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/10/12	Lab ID:	212138-03
Date Analyzed:	12/11/12	Data File:	121041.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.11
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.45
Tetrachloroethene	8.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B114-40	Client:	SoundEarth Strategies
Date Received:	12/10/12	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/10/12	Lab ID:	212138-04
Date Analyzed:	12/11/12	Data File:	121040.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.071
Tetrachloroethene	0.59

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B114-45	Client:	SoundEarth Strategies
Date Received:	12/10/12	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/12/12	Lab ID:	212138-05
Date Analyzed:	12/12/12 18:10	Data File:	121222.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.25

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/12/12	Lab ID:	02-2249 mb
Date Analyzed:	12/12/12 11:42	Data File:	121209.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121210, F&BI 212138
Date Extracted:	12/10/12	Lab ID:	02-2244 mb
Date Analyzed:	12/10/12	Data File:	121015.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/14/12
Date Received: 12/10/12
Project: SOU_0797_20121210, F&BI 212138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212136-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	48	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	61	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	66	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	62	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	63	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	67	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	84	82	42-107	2
Chloroethane	mg/kg (ppm)	2.5	77	76	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	93	65-110	3
Methylene chloride	mg/kg (ppm)	2.5	112	108	62-119	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	100	71-113	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	98	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	101	77-110	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	98	80-109	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	105	72-116	0
Trichloroethene	mg/kg (ppm)	2.5	99	99	72-107	0
Tetrachloroethene	mg/kg (ppm)	2.5	106	102	77-110	4

Date of Report: 12/14/12
Date Received: 12/10/12
Project: SOU_0797_20121210, F&BI 212138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212170-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	37	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	46	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	67	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	59	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	63	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	60	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	62	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	65	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	78	77	42-107	1
Chloroethane	mg/kg (ppm)	2.5	69	70	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	85	65-110	2
Methylene chloride	mg/kg (ppm)	2.5	101	102	62-119	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	90	71-113	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	88	89	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	91	77-110	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	88	80-109	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	95	96	72-116	1
Trichloroethene	mg/kg (ppm)	2.5	89	90	72-107	1
Tetrachloroethene	mg/kg (ppm)	2.5	93	94	77-110	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

DV

~~212138~~ 212138

SAMPLE CHAIN OF CUSTODY

ME 12-10-12 1403 / VSL

Page # 1 of

Send Report To Chuck Cecil

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ ~~RUSH~~ 48 hr per CC 12/10/12 MK

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	HVOC's by 8260	SVOC's by 8270	RCRA-8 Metals			X-Run per CC 12/10/12 Notes MK ⊗-per CC 12/12/12 MS
B114-15	B114	15	01A-E	12-Dec	0955	Soil	5				X					~~Hold~~
B114-25	B114	25	02		1005	Soil	5				X					~~Hold~~
B114-35	B114	35	03		1015	Soil	5				X					~~Hold~~
B114-40	B114	40	04		1025	Soil	5				X					~~Hold~~
B114-45	B114	45	05		1040	Soil	5				(Y)					~~Hold~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mandel	SES	12/10/12	1315
Received by:	Phan Phan	FEBI	12/10/12	1315
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 13, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 11, 2012 from the SOU_0797_20121211, F&BI 212170 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1213R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 11, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121211, F&BI 212170 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212170-01	B112-10
212170-02	B112-20
212170-03	B112-30
212170-04	B112-40
212170-05	B112-50
212170-06	B112-60
212170-07	B112-70
212170-08	B112-75

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-10	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-01
Date Analyzed:	12/12/12	Data File:	121211.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-20	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-02
Date Analyzed:	12/12/12	Data File:	121212.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-30	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-03
Date Analyzed:	12/12/12	Data File:	121213.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-40	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-04
Date Analyzed:	12/12/12	Data File:	121214.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-50	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-05
Date Analyzed:	12/12/12	Data File:	121219.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-60	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-06
Date Analyzed:	12/12/12	Data File:	121220.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-75	Client:	SoundEarth Strategies
Date Received:	12/11/12	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	212170-08
Date Analyzed:	12/12/12	Data File:	121221.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121211, F&BI 212170
Date Extracted:	12/12/12	Lab ID:	02-2249 mb
Date Analyzed:	12/12/12	Data File:	121209.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/13/12
Date Received: 12/11/12
Project: SOU_0797_20121211, F&BI 212170

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212170-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	37	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	42	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	46	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	67	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	59	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	63	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	60	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	62	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	65	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	78	77	42-107	1
Chloroethane	mg/kg (ppm)	2.5	69	70	50-115	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	85	65-110	2
Methylene chloride	mg/kg (ppm)	2.5	101	102	62-119	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	90	71-113	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	88	89	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	91	77-110	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	88	80-109	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	95	96	72-116	1
Trichloroethene	mg/kg (ppm)	2.5	89	90	72-107	1
Tetrachloroethene	mg/kg (ppm)	2.5	93	94	77-110	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

9/2170

SAMPLE CHAIN OF CUSTODY

ME 12-11-12

A03/K3

Page # 1 of

Send Report To Chuck Cook

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA

Phone # 206-306-1900 Fax # 206-306-1902

SAMPLERS (signature)

PROJECT NAME/NO. Tod Dock 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chromatography screening		Notes
B112-10	B112	10	01A	12-11-12	0940	Soil	5							X		X-per CC 12/11/12 Hold
B112-20	B112	20	02		0950		5							X		Hold.
B112-30	B112	30	03		1005		5							X		Hold.
B112-40	B112	40	04		1020		5							X		Hold
B112-50	B112	50	05		1040		5							X		Hold
B112-60	B112	60	06		1105		5							X		Hold
B112-70	B112	70	07		1150		5									Hold
B112-75	B112	75	08		1200		5							X		Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hardaway	SES	12-11-12	1325
Received by:	Nhan Phan	FEBT	12/11/12	1325
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 18, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 12, 2012 from the SOU_0797_20121212, F&BI 212204 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU1218R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 12, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121212, F&BI 212204 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212204-01	B112-80
212204-02	B112-85

The 8260C calibration standard failed the acceptance criteria for chloroethane. The data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B112-85	Client:	SoundEarth Strategies
Date Received:	12/12/12	Project:	SOU_0797_20121212, F&BI 212204
Date Extracted:	12/13/12	Lab ID:	212204-02
Date Analyzed:	12/13/12	Data File:	121324.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5 ca
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121212, F&BI 212204
Date Extracted:	12/13/12	Lab ID:	02-2295 mb
Date Analyzed:	12/13/12	Data File:	121312.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5 ca
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/18/12
Date Received: 12/12/12
Project: SOU_0797_20121212, F&BI 212204

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212204-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	44	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	47	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	69	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	73	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	72	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	77	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	79	74	42-107	7
Chloroethane	mg/kg (ppm)	2.5	70	65	50-115	7
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	84	65-110	2
Methylene chloride	mg/kg (ppm)	2.5	97	94	62-119	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	89	71-113	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	89	76-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	92	77-110	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	91	89	80-109	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	94	72-116	4
Trichloroethene	mg/kg (ppm)	2.5	93	89	72-107	4
Tetrachloroethene	mg/kg (ppm)	2.5	97	94	77-110	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212204

SAMPLE CHAIN OF CUSTODY

ME 12/12/12

VSI/ETI

Page # 1 of 1

Send Report To Chuck Cacek

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 48hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chloride		Notes
B112-80	B112	80	01A-E	12-12-12	1010	Soil	5									~~hold~~
B112-85	B112	85	02A-E	12-12-12	1030	Soil	5							X		~~hold~~
																~~X~~ per CC 12/13/12 MG

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mandel	SES	12/12/12	1255
Received by:		Nhan Pham	FEBT	12/12/12	1255
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 18, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 13, 2012 from the SOU_0797_20121213, F&BI 212234 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1218R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 13, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121213, F&BI 212234 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212234-01	B115-10
212234-02	B115-15
212234-03	B115-25
212234-04	B115-35
212234-05	B115-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B115-10	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	212234-01
Date Analyzed:	12/14/12	Data File:	121424.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B115-15	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	212234-02
Date Analyzed:	12/14/12	Data File:	121425.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B115-25	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	212234-03
Date Analyzed:	12/14/12	Data File:	121426.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B115-35	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	212234-04
Date Analyzed:	12/14/12	Data File:	121427.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B115-45	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	212234-05
Date Analyzed:	12/14/12	Data File:	121428.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121213, F&BI 212234
Date Extracted:	12/14/12	Lab ID:	02-2295 mb2
Date Analyzed:	12/14/12	Data File:	121409.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5 ca
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/18/12
Date Received: 12/13/12
Project: SOU_0797_20121213, F&BI 212234

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212204-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	44	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	47	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	69	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	73	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	72	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	77	32-107

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	79	74	42-107	7
Chloroethane	mg/kg (ppm)	2.5	70	65	50-115	7
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	84	65-110	2
Methylene chloride	mg/kg (ppm)	2.5	97	94	62-119	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	89	71-113	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	89	76-109	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	92	77-110	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	91	89	80-109	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	98	94	72-116	4
Trichloroethene	mg/kg (ppm)	2.5	93	89	72-107	4
Tetrachloroethene	mg/kg (ppm)	2.5	97	94	77-110	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212234

SAMPLE CHAIN OF CUSTODY ME 12/13/12 VS1/A01

Page # 1 of 1

Send Report To Chuck Cecil

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 720 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME

☐ Standard (2 Weeks)

☑ RUSH 48hr - per CC 12/14/12 MK

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu's		Notes
B115-10	B115	10	01A-E	12-13-12	1000	Soil	5							X		X-analyze as marked per CC 12/14/12 MK
B115-15	B115	15	02		1005	Soil	5							X		
B115-25	B115	25	03		1015	Soil	5							X		
B115-35	B115	35	04		1030	Soil	5							X		
B115-45	B115	45	05		1055	Soil	5							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendel	SES	12/13/12	1345
Received by:		Nhan Phan	FeBI	12/13/12	1345
Relinquished by:					
Received by:			Samples received at 5 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 21, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 14, 2012 from the SOU_0797_20121214, F&BI 212277 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU1221R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 14, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121214, F&BI 212277 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212277-01	B108-15
212277-02	B108-25
212277-03	B108-35
212277-04	B108-45
212277-05	B108-50

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B108-15	Client:	SoundEarth Strategies
Date Received:	12/14/12	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	212277-01
Date Analyzed:	12/17/12	Data File:	121724.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B108-25	Client:	SoundEarth Strategies
Date Received:	12/14/12	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	212277-02
Date Analyzed:	12/17/12	Data File:	121725.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	102	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B108-35	Client:	SoundEarth Strategies
Date Received:	12/14/12	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	212277-03
Date Analyzed:	12/17/12	Data File:	121726.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	102	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B108-45	Client:	SoundEarth Strategies
Date Received:	12/14/12	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	212277-04
Date Analyzed:	12/17/12	Data File:	121727.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B108-50	Client:	SoundEarth Strategies
Date Received:	12/14/12	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	212277-05
Date Analyzed:	12/18/12	Data File:	121728.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.037

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121214, F&BI 212277
Date Extracted:	12/17/12	Lab ID:	02-2300 mb
Date Analyzed:	12/17/12	Data File:	121705.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/21/12
Date Received: 12/14/12
Project: SOU_0797_20121214, F&BI 212277

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212285-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	76	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	59	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	72	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	63	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	55	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	100	102	22-139	2
Chloroethane	mg/kg (ppm)	2.5	96	97	20-153	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	104	104	47-128	0
Methylene chloride	mg/kg (ppm)	2.5	96	94	42-132	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	99	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	102	101	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	99	72-113	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	105	104	56-135	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	104	62-131	1
Trichloroethene	mg/kg (ppm)	2.5	95	95	68-114	0
Tetrachloroethene	mg/kg (ppm)	2.5	105	105	72-114	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

21227

SAMPLE CHAIN OF CUSTODY

ME 12-14-12

A02/V5

Send Report To Chuck Cacak

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. Two Depth 0797

PO #

REMARKS

GEMS Y / N

Page # 1 of

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 96hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chlorinated Solvents		Notes (X-per CC 12/17/12 mg.)
B108-15	B108	15	01A-F	12-14-12	0835	Soil	5							X		
B108-25		25	02		0845	Soil	5							X		
B108-35		35	03		0910	Soil	5							X		
B108-45		45	04		0930	Soil	5							X		
B108-50		50	05		0945	Soil	5							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hansberger	SES	12-14-12	1250
Received by:	Nhan Phan	FEBT	12/14/12	1250
Relinquished by:				
Received by:		Samples received at 5 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 20, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 18, 2012 from the SOU_0797_20121218, F&BI 212307 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU1220R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121218, F&BI 212307 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212307-01	B113-10
212307-02	B113-20
212307-03	B113-30
212307-04	B113-40
212307-05	B113-50

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B113-10	Client:	SoundEarth Strategies
Date Received:	12/18/12	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	212307-01
Date Analyzed:	12/18/12	Data File:	121823.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	102	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B113-20	Client:	SoundEarth Strategies
Date Received:	12/18/12	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	212307-02
Date Analyzed:	12/18/12	Data File:	121824.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B113-30	Client:	SoundEarth Strategies
Date Received:	12/18/12	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	212307-03
Date Analyzed:	12/18/12	Data File:	121825.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B113-40	Client:	SoundEarth Strategies
Date Received:	12/18/12	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	212307-04
Date Analyzed:	12/18/12	Data File:	121826.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B113-50	Client:	SoundEarth Strategies
Date Received:	12/18/12	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	212307-05
Date Analyzed:	12/18/12	Data File:	121827.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	142
Toluene-d8	101	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121218, F&BI 212307
Date Extracted:	12/18/12	Lab ID:	02-2301 mb
Date Analyzed:	12/18/12	Data File:	121815.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	142
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 12/20/12
Date Received: 12/18/12
Project: SOU_0797_20121218, F&BI 212307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212266-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	40	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	59	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	53	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	61	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	55	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	60	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	66	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	57	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	73	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	62	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	91	91	22-139	0
Chloroethane	mg/kg (ppm)	2.5	94	92	20-153	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	94	47-128	2
Methylene chloride	mg/kg (ppm)	2.5	96	94	42-132	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	85	67-127	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	90	89	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	85	72-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	93	92	56-135	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	91	89	62-131	2
Trichloroethene	mg/kg (ppm)	2.5	82	80	68-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	91	89	72-114	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212307

SAMPLE CHAIN OF CUSTODY

ME 12/18/12

VS1/GT2

Send Report To Chuck Carlyle

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

Page # 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu's		Notes
								ANALYSES REQUESTED								
B113-10	B113	10	01AE	12-17-12	0945	Soil	5							X		Rupace 12/18/12 ms.
B113-20		20	02		0950		5							X		
B113-30		30	03		0955		5							X		
B113-40		40	04		1020		5							X		
B113-50		50	05		1030		5							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Huneberger	SES	12-18-12	1005
Received by:	Eric Boone	FSB	12/18/12	10:25
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

February 11, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included is the amended report from the testing of material submitted on February 4, 2013 from the SOU_0797_20130204, F&BI 302031 project. Per your request, the sample IDs have been amended to B117.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0208R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

February 8, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on February 4, 2013 from the SOU_0797_20130204, F&BI 302031 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0208R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on February 4, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130204, F&BI 302031 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
302031 -01	B117-10
302031 -02	B117-15
302031 -03	B117-20
302031 -04	B117-25
302031 -05	B117-30
302031 -06	B117-35
302031 -07	B117-40
302031 -08	B117-45
302031 -09	B117-50
302031 -10	B117-55

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B117-10	Client:	SoundEarth Strategies
Date Received:	02/04/13	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	302031-01
Date Analyzed:	02/05/13	Data File:	020511.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B117-20	Client:	SoundEarth Strategies
Date Received:	02/04/13	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	302031-03
Date Analyzed:	02/05/13	Data File:	020512.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B117-30	Client:	SoundEarth Strategies
Date Received:	02/04/13	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	302031-05
Date Analyzed:	02/05/13	Data File:	020513.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	106	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B117-40	Client:	SoundEarth Strategies
Date Received:	02/04/13	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	302031-07
Date Analyzed:	02/05/13	Data File:	020514.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B117-50	Client:	SoundEarth Strategies
Date Received:	02/04/13	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	302031-09
Date Analyzed:	02/05/13	Data File:	020515.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	106	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130204, F&BI 302031
Date Extracted:	02/05/13	Lab ID:	03-0126 mb2
Date Analyzed:	02/05/13	Data File:	020510.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	94	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 02/08/13
Date Received: 02/04/13
Project: SOU_0797_20130204, F&BI 302031

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 301327-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	60	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	64	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	74	11-103
Methylene chloride	mg/kg (ppm)	2.5	1.6	67 b	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	77	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	83	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	85	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	84	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	79	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	84	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.03	80	27-110

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	84	85	42-107	1
Chloroethane	mg/kg (ppm)	2.5	82	85	47-115	4
1,1-Dichloroethene	mg/kg (ppm)	2.5	95	95	65-110	0
Methylene chloride	mg/kg (ppm)	2.5	99	97	62-119	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	92	71-113	0
1,1-Dichloroethane	mg/kg (ppm)	2.5	97	96	76-109	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	97	77-110	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	98	93	80-109	5
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	97	95	72-116	2
Trichloroethene	mg/kg (ppm)	2.5	98	97	72-107	1
Tetrachloroethene	mg/kg (ppm)	2.5	99	99	77-110	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

302031

SAMPLE CHAIN OF CUSTODY

NE 02/04/13 VS2/ BT2

Send Report To: Chuck Cacek
Company: SoundEarth Strategies
Address: 2811 Fairview Ave E Suite 200
City, State, ZIP: Seattle, WA 98102
Phone #: 206.306.1900 Fax #: 206.306.1907

SAMPLERS (signature):

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS:

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- RUSH 48hr TAT per CC
- Rush charges authorized by: MK

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID (per CC 2/6/13 ME)	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu/Cr/S		X-per CC 2/4/13 ME Notes
B118-10	B118	10	01 ME	2-4-13	1055	Soil	5							X		~~Hold~~
B118-15	B118	15	02		1100	Soil	5									Hold
B118-20	B118	20	03		1110	Soil	5							X		~~Hold~~
B118-25	B118	25	04		1115	Soil	5									Hold
B118-30	B118	30	05		1125	Soil	5							X		~~Hold~~
B118-35	B118	35	06		1130	Soil	5									Hold
B118-40	B118	40	07		1140	Soil	5							X		~~Hold~~
B118-45	B118	45	08		1150	Soil	5									Hold
B118-50	B118	50	09		1200	Soil	5							X		~~Hold~~
B118-55	B118	55	10		1205	Soil	5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hasbrouck	SES	2-4-13	1242
Received by:	HONG NGUYEN	FBI	2/4/13	12:45
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 25, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 18, 2013 from the SOU_0797_20130319, F&BI 303245 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0325R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 18, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130319, F&BI 303245 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303245 -01	DB02-05
303245 -02	DB02-10
303245 -03	DB02-15
303245 -04	DB02-20
303245 -05	DB02-30
303245 -06	DB02-35
303245 -07	DB02-40
303245 -08	DB01-05
303245 -09	DB01-10
303245 -10	DB01-15
303245 -11	DB01-20
303245 -12	DB01-25
303245 -13	DB01-30
303245 -14	DB01-35
303245 -15	DB01-40
303245 -16	DB02-45

All quality control requirements were acceptable.

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130319, F&BI 303245
Date Extracted: 03/19/13
Date Analyzed: 03/19/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
DB02-10 303245-02	<0.02	<0.02	<0.02	<0.06	<2	91
DB02-15 303245-03	<0.02	<0.02	<0.02	<0.06	<2	90
Method Blank 03-0441 MB	<0.02	<0.02	<0.02	<0.06	<2	105

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130319, F&BI 303245
Date Extracted: 03/20/13
Date Analyzed: 03/21/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
DB02-10 303245-02	<50	<250	102
DB02-15 303245-03	<50	<250	99
Method Blank 03-493 MB2	<50	<250	93

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB02-10	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-02
Date Analyzed:	03/20/13	Data File:	032012.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB02-20	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-04
Date Analyzed:	03/20/13	Data File:	032013.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.22

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB02-30	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-05
Date Analyzed:	03/20/13	Data File:	032019.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.058

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB02-40	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-07
Date Analyzed:	03/20/13	Data File:	032020.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.060
Tetrachloroethene	2.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB01-10	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-09
Date Analyzed:	03/20/13	Data File:	032021.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.042

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB01-20	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-11
Date Analyzed:	03/20/13	Data File:	032022.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	98	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB01-30	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-13
Date Analyzed:	03/20/13	Data File:	032023.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB01-40	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	303245-15
Date Analyzed:	03/20/13	Data File:	032024.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20130319, F&BI 303245
Date Extracted:	03/20/13	Lab ID:	03-0399 mb
Date Analyzed:	03/20/13	Data File:	032006.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130319, F&BI 303245

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 303233-01 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	84	66-121
Toluene	mg/kg (ppm)	0.5	91	72-128
Ethylbenzene	mg/kg (ppm)	0.5	92	69-132
Xylenes	mg/kg (ppm)	1.5	93	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130319, F&BI 303245

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 303257-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	230	107	110	64-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	58-147

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130319, F&BI 303245

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303245-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	42	44	10-138	5
Chloroethane	mg/kg (ppm)	2.5	<0.5	50	52	10-176	4
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	62	10-160	7
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	77	10-156	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	71	74	14-137	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	75	79	19-140	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	78	80	25-135	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	79	84	12-160	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	75	78	10-156	4
Trichloroethene	mg/kg (ppm)	2.5	<0.03	74	78	21-139	5
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	76	82	20-133	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	78	22-139
Chloroethane	mg/kg (ppm)	2.5	52	10-163
1,1-Dichloroethene	mg/kg (ppm)	2.5	88	47-128
Methylene chloride	mg/kg (ppm)	2.5	103	42-132
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	72-113
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	101	62-131
Trichloroethene	mg/kg (ppm)	2.5	97	64-117
Tetrachloroethene	mg/kg (ppm)	2.5	101	72-114

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

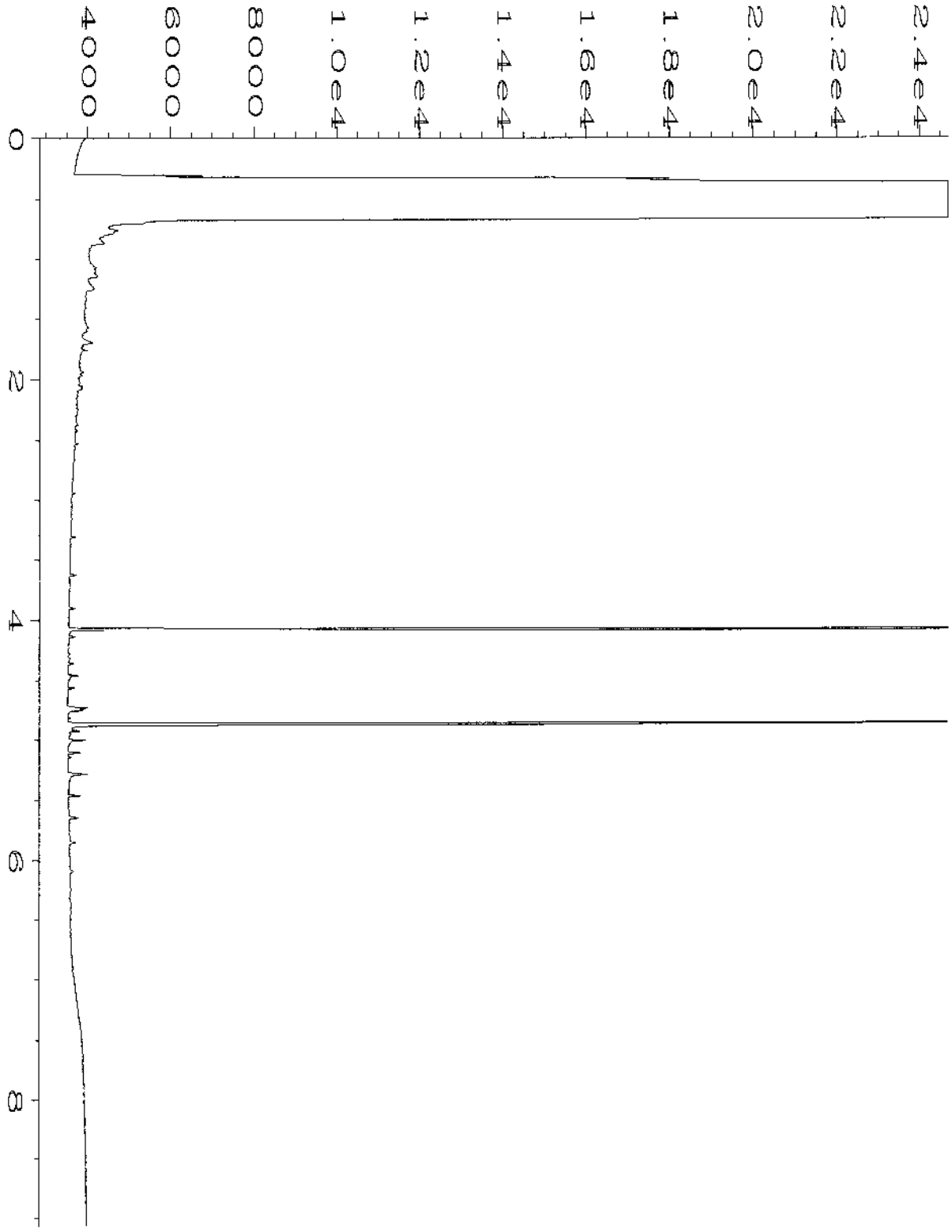
pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

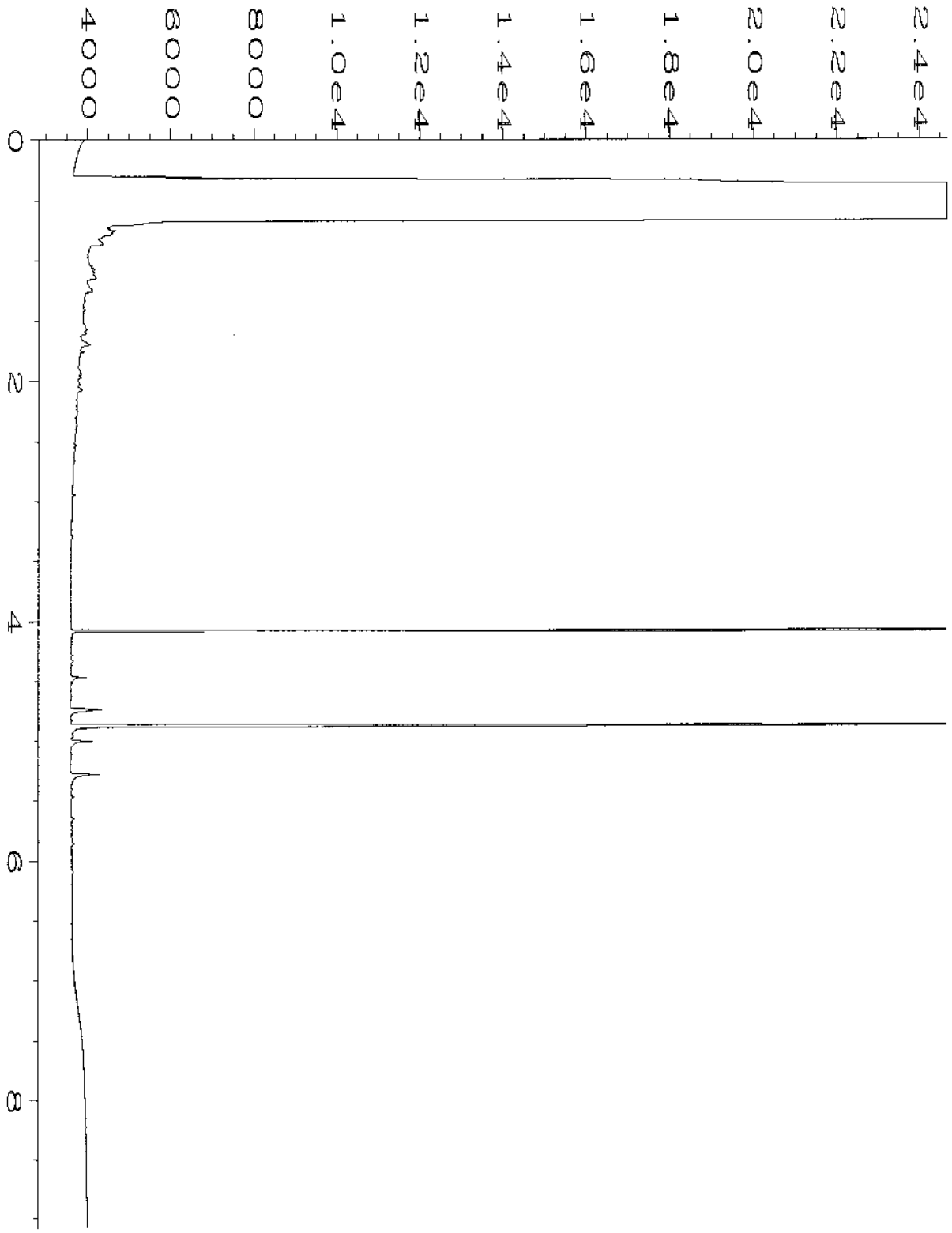
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



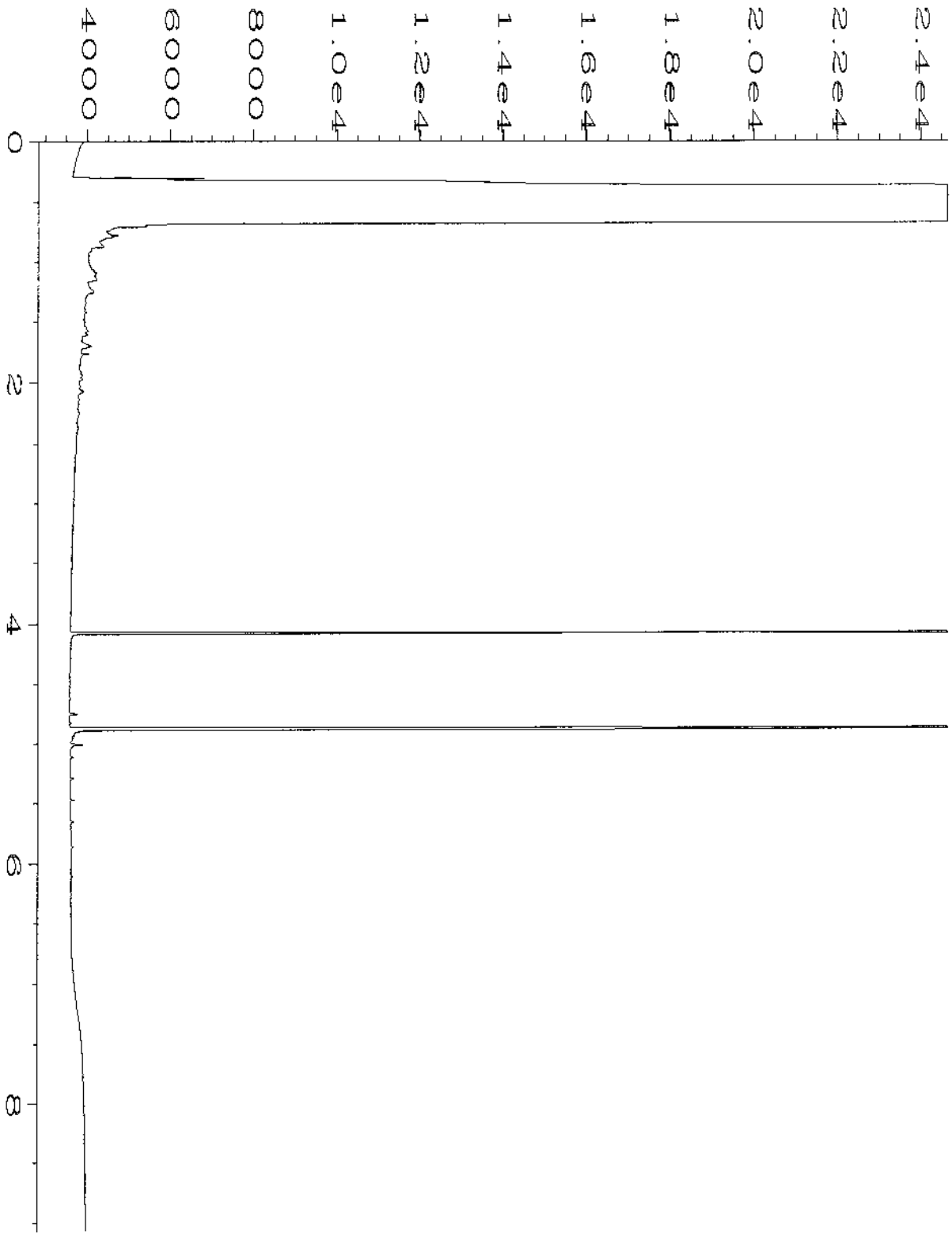
Data File Name : C:\HPCHEM\6\DATA\03-21-13\018F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 303245-02
Run Time Bar Code:
Acquired on : 21 Mar 13 12:41 PM
Report Created on: 22 Mar 13 08:48 AM

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 4
Instrument Method: DX.MTH
Analysis Method : DX.MTH

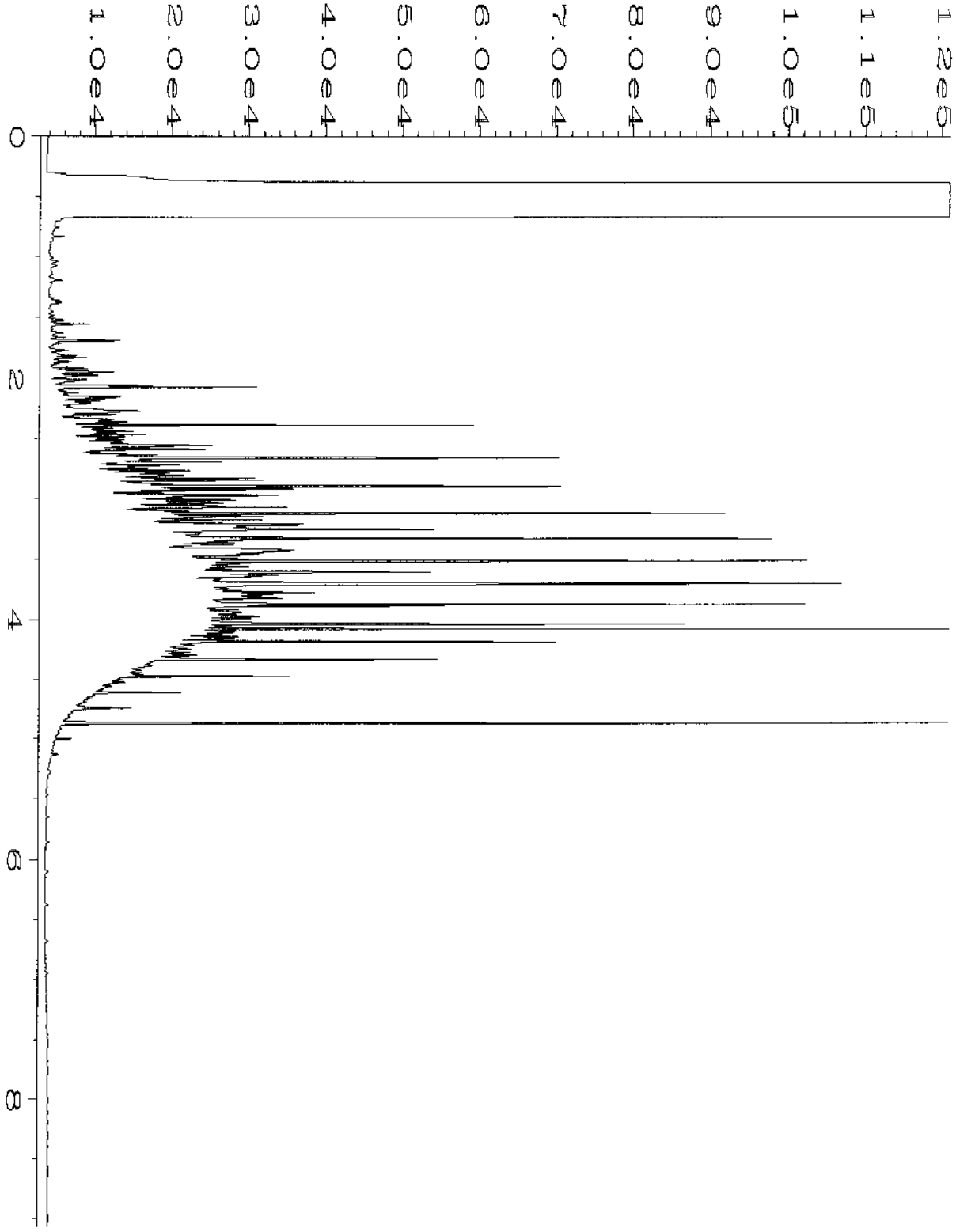


Data File Name : C:\HPCHEM\6\DATA\03-21-13\019F0401.D
Operator : mwdl
Instrument : GC #6
Sample Name : 303245-03
Run Time Bar Code:
Acquired on : 21 Mar 13 12:54 PM
Report Created on: 22 Mar 13 08:48 AM

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 4
Instrument Method: DX.MTH
Analysis Method : DX.MTH



Data File Name	: C:\HPCHEM\6\DATA\03-21-13\014F0301.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 14
Sample Name	: 03-497 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 21 Mar 13 11:33 AM	Instrument Method	: DX.MTH
Report Created on	: 22 Mar 13 08:48 AM	Analysis Method	: DX.MTH



Data File Name	: C:\HPCHEM\6\DATA\03-21-13\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 3
Sample Name	: 500 Dx 39-143C	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 21 Mar 13 09:33 AM	Instrument Method	: DX.MTH
Report Created on	: 22 Mar 13 08:48 AM	Analysis Method	: DX.MTH

303245

SAMPLE CHAIN OF CUSTODY

ME 03/19/13

Page # 1 of 2 (1)/VSL

Send Report To Chuck Cacek

Company Sundquist

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle / WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature) [signature]

PROJECT NAME/NO. 0797 Tax Parker

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr
- Rush charges authorized by: CC

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

	Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx + BTEX	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu/Pb	HVOCs	Notes
DB02	B-2-05	B-2	05	01	03-18-13	1010	Soil	5									Hold
DB02	B-2-10		10	02		1015	Soil	5	X	X						X	
DB02	B-2-15		15	03		1020	Soil	5	X	X							Hold
DB02	B-2-20		20	04		1030	Soil	5								X	
DB02	B-2-30		30	05		1045	Soil	1								X	
DB02	B-2-35		35	06		1050	Soil	5									Hold
DB02	B-2-40		40	07		1055	Soil	5								X	
DB01	B-1-05	B-1	05	08		1330	Soil	5									Hold
DB01	B-1-10		10	09		1335	Soil	5								X	
DB01	B-1-15		15	10		1340	Soil	5									Hold
DB01	B-1-20		20	11		1345	Soil	5								X	
DB01	B-1-25		25	12		1350	Soil	5									Hold
DB01	B-1-30		30	13		1355	Soil	5								X	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	David Mendel	SES	3/18/13	1710
Received by:	[signature]	Dan Stramer	FBI	3/18/13	1715
Relinquished by:					
Received by:					

Samples received at 4 °C

PAGE 1 OF 2 DOCUMENT DOC (Revision 7)

303245

SAMPLE CHAIN OF CUSTODY

ME 03/19/13

Page # 1 of 2 CT3/VS2

Send Report To

Company See Page 1

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME / NO.
0777
7th Ave

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
☐ Standard (2 Weeks)
☒ RUSH 48 hr
Rush charges authorized by:
CCC

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	HVOCs		Notes
DB01	B3-35	B-1	35	14	3-18-13	1400	Soil	5									Held
DB01	B2-40	B-1	40	15	3-18-13	1405	Soil	5							X		Held
	B2-45			16	3-18-13	1100	Soil	5									Added in lab (DB) 3/18/13

3/18/13

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Merkel	SGS	3/18/13	1710
Received by:	Jay Ehlgaman	FBI	"	"
Relinquished by:				
Received by:				

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 25, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 19, 2013 from the SOU_0797_20130319, F&BI 303262 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0325R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 19, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130319, F&BI 303262 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303262 -01	DB09-05
303262 -02	DB09-10
303262 -03	DB09-15
303262 -04	DB09-20
303262 -05	DB09-25
303262 -06	DB09-30
303262 -07	DB09-35
303262 -08	DB09-40
303262 -09	DB09-45
303262 -10	DB09-50
303262 -11	DB09-55
303262 -12	DB09-60
303262 -13	DB09-65
303262 -14	DB09-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-10	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-02
Date Analyzed:	03/20/13	Data File:	032025.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.027

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-20	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-04
Date Analyzed:	03/20/13	Data File:	032026.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.15

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-30	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-06
Date Analyzed:	03/20/13	Data File:	032027.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.25
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.22
Tetrachloroethene	6.1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-40	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-08
Date Analyzed:	03/20/13	Data File:	032028.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.18
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.28
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-50	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-10
Date Analyzed:	03/20/13	Data File:	032029.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.14

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-60	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-12
Date Analyzed:	03/20/13	Data File:	032030.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	95	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.031

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB09-70	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	303262-14
Date Analyzed:	03/20/13	Data File:	032031.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130319, F&BI 303262
Date Extracted:	03/20/13	Lab ID:	03-0399 mb
Date Analyzed:	03/20/13	Data File:	032006.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/25/13
Date Received: 03/19/13
Project: SOU_0797_20130319, F&BI 303262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303245-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	42	44	10-138	5
Chloroethane	mg/kg (ppm)	2.5	<0.5	50	52	10-176	4
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	62	10-160	7
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	77	10-156	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	71	74	14-137	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	75	79	19-140	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	78	80	25-135	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	79	84	12-160	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	75	78	10-156	4
Trichloroethene	mg/kg (ppm)	2.5	<0.03	74	78	21-139	5
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	76	82	20-133	8

Date of Report: 03/25/13
Date Received: 03/19/13
Project: SOU_0797_20130319, F&BI 303262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	78	22-139
Chloroethane	mg/kg (ppm)	2.5	52	10-163
1,1-Dichloroethene	mg/kg (ppm)	2.5	88	47-128
Methylene chloride	mg/kg (ppm)	2.5	103	42-132
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	72-113
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	101	62-131
Trichloroethene	mg/kg (ppm)	2.5	97	64-117
Tetrachloroethene	mg/kg (ppm)	2.5	101	72-114

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303262

SAMPLE CHAIN OF CUSTODY

ME 03/19/13 VS2/CS3

Page # 1 of 2

Send Report To Chuck Cacak

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 760 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hour per cc 3/15/13
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOCs by 8270	RCRA-8 Metals	HVOC's		Notes
								ANALYSES REQUESTED								X-per CC 3/19/13 MG
DB09-05	DB09	05	01 ME	3-19-13	0920	Soil	5									Hold
DB09-10		10	02		0925	Soil	5							X		~~Hold~~
DB09-15		15	03		0930	Soil	5									Hold
DB09-20		20	04		0935	Soil	5							X		~~Hold~~
DB09-25		25	05		0940	Soil	5									Hold
DB09-30		30	06		0945	Soil	5							X		~~Hold~~
DB09-35		35	07		0950	Soil	5									Hold
DB09-40		40	08		1020	Soil	5							X		~~Hold~~
DB09-45		45	09		1025	Soil	5									Hold
DB09-50		50	10		1030	Soil	5							X		~~Hold~~
DB09-55		55	11		1035	Soil	5									Hold
DB09-60		60	12		1045	Soil	5							X		~~Hold~~
DB09-65		65	13		1100	Soil	5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mandel	SES	3/19/13	1430
Received by:	HONGMEN	FBI	V	V
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 8 °C

303262

SAMPLE CHAIN OF CUSTODY

ME 03/19/13

VS2 / CT3

Page # 2 of 2

Send Report To

Company See Page 1

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO. 0797 Tau Dental

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	HVOC's		Notes
DB09-70	DB09	70	14A-E	3-19-13	1105	Soil	5							X		~~Hold~~

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mandel	SES	3/19/13	1430
Received by:		HONG NGUYEN	FBI	"	"
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 8 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 25, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 20, 2013 from the SOU_0797_20130320, F&BI 303277 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0325R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 20, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130320, F&BI 303277 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303277 -01	DB08-05
303277 -02	DB08-10
303277 -03	DB08-15
303277 -04	DB08-20
303277 -05	DB08-25
303277 -06	DB08-30
303277 -07	DB08-35
303277 -08	DB08-40
303277 -09	DB08-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-10	Client:	SoundEarth Strategies
Date Received:	03/20/13	Project:	SOU_0797_20130320, F&BI 303277
Date Extracted:	03/21/13	Lab ID:	303277-02
Date Analyzed:	03/21/13	Data File:	032114.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	102	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.048

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-20	Client:	SoundEarth Strategies
Date Received:	03/20/13	Project:	SOU_0797_20130320, F&BI 303277
Date Extracted:	03/21/13	Lab ID:	303277-04
Date Analyzed:	03/21/13	Data File:	032115.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.097
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.19
Tetrachloroethene	4.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-35	Client:	SoundEarth Strategies
Date Received:	03/20/13	Project:	SOU_0797_20130320, F&BI 303277
Date Extracted:	03/21/13	Lab ID:	303277-07
Date Analyzed:	03/21/13	Data File:	032116.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.094
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.21
Tetrachloroethene	4.5

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-45	Client:	SoundEarth Strategies
Date Received:	03/20/13	Project:	SOU_0797_20130320, F&BI 303277
Date Extracted:	03/21/13	Lab ID:	303277-09
Date Analyzed:	03/21/13	Data File:	032117.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.056

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130320, F&BI 303277
Date Extracted:	03/21/13	Lab ID:	03-0475 mb
Date Analyzed:	03/21/13	Data File:	032109.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/25/13
Date Received: 03/20/13
Project: SOU_0797_20130320, F&BI 303277

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303277-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	52	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	54	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	67	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	77	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	80	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	83	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	85	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	89	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	83	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	81	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	0.048	88	20-133

Date of Report: 03/25/13
Date Received: 03/20/13
Project: SOU_0797_20130320, F&BI 303277

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	78	78	22-139	0
Chloroethane	mg/kg (ppm)	2.5	54	59	10-163	9
1,1-Dichloroethene	mg/kg (ppm)	2.5	85	87	47-128	2
Methylene chloride	mg/kg (ppm)	2.5	92	94	42-132	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	99	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	100	101	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	100	72-113	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	102	56-135	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	100	100	62-131	0
Trichloroethene	mg/kg (ppm)	2.5	95	96	64-117	1
Tetrachloroethene	mg/kg (ppm)	2.5	100	100	72-114	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303277

SAMPLE CHAIN OF CUSTODY

ME 03-20-13 302/V82

Page # 1 of 1

Send Report To Chuck Cecil

Company Pacific Soundcoast Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1900

SAMPLERS (signature) [signature]

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH Yesterday
- Rush charges authorized by: MC

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	HVOCs		Y-per CC 3/21/13 Notes MC
DB08-05	DB08	05	01 A-E	3-20-13	0810	Soil	5									Hold
DB08-10		10	02		0815	Soil	5							X		~~Hold~~
DB08-15		15	03		0820	Soil	5									Hold
DB08-20		20	04		0825	Soil	5							X		~~Hold~~
DB08-25		25	05		0830	Soil	5									Hold
DB08-30		30	06		0835	Soil	5									Hold
DB08-35		35	07		0840	Soil	5							X		~~Hold~~
DB08-40		40	08		0845	Soil	5									Hold
DB08-45		45	09		0850	Soil	5							X		~~Hold~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Robert A. Hooley	SES	3-20-13	1350
Received by: [signature]	DO NO	FXRE	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 26, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 21, 2013 from the SOU_0797-001_20130321, F&BI 303307 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0326R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 21, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001_20130321, F&BI 303307 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303307 -01	B118-10
303307 -02	B118-20
303307 -03	B118-30
303307 -04	B118-40
303307 -05	B118-50
303307 -06	B119-10
303307 -07	B119-20
303307 -08	B119-30
303307 -09	B119-40

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B118-10	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-01
Date Analyzed:	03/22/13	Data File:	032227.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B118-20	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-02
Date Analyzed:	03/22/13	Data File:	032228.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B118-30	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-03
Date Analyzed:	03/22/13	Data File:	032229.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B118-40	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-04
Date Analyzed:	03/22/13	Data File:	032230.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B118-50	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-05
Date Analyzed:	03/22/13	Data File:	032231.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B119-10	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-06
Date Analyzed:	03/22/13	Data File:	032232.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B119-20	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-07
Date Analyzed:	03/22/13	Data File:	032233.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B119-30	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-08
Date Analyzed:	03/22/13	Data File:	032234.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B119-40	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	303307-09
Date Analyzed:	03/24/13	Data File:	032405.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001_20130321
Date Extracted:	03/22/13	Lab ID:	03-0477 mb
Date Analyzed:	03/22/13	Data File:	032209.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/26/13
Date Received: 03/21/13
Project: SOU_0797-001_20130321, F&BI 303307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303126-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	50	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	62	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	90	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	78	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	75	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	79	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	83	27-110

Date of Report: 03/26/13
Date Received: 03/21/13
Project: SOU_0797-001_20130321, F&BI 303307

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	69	77	42-107	11
Chloroethane	mg/kg (ppm)	2.5	64	66	47-115	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	85	91	65-110	7
Methylene chloride	mg/kg (ppm)	2.5	97	100	62-119	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	97	71-113	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	96	100	76-109	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	95	98	77-110	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	95	99	80-109	4
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	104	103	72-116	1
Trichloroethene	mg/kg (ppm)	2.5	95	99	72-107	4
Tetrachloroethene	mg/kg (ppm)	2.5	100	103	77-110	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303307 [redacted]

SAMPLE CHAIN OF CUSTODY

ME 03-21-13 ~~DOE~~ / KPG

Page # C-1 of

Send Report To Chuck Cacek, Brian Dixon

Company Sound Earth Strategies

Address 2811 Fairview Ave E

City, State, ZIP Seattle, WA

Phone # 206-306-1900 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. 0797-001

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	HVOCs, VOCs by 8260C	SVOCs by 8270	RCRA-8 Metals			Notes
B11B-10	B11B	10	01A-E	3/21/13	1005	Soil	5				X					
B11B-20	B11B	20	02		1025		5				X					
B11B-30	B11B	30	03		1030		5				X					
B11B-40	B11B	40	04		1045		5				X					
B11B-50	B11B	50	05		1055		5				X					
B11C-10	B11C	10	06		1400		5				X					
B11C-20		20	07		1410		5				X					
B11C-30		30	08		1420		5				X					
B11C-40		40	09		1440		5				X					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Liz Parks	SET	3/21/13	1520
Received by:	Nhan Phan	FEBI	3/21/13	1520
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 1 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 26, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 21, 2013 from the SOU_0797_20130321, F&BI 303308 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0326R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 21, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130321, F&BI 303308 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303308 -01	DB08-50
303308 -02	DB08-55
303308 -03	DB08-60
303308 -04	DB08-65
303308 -05	DB08-70
303308 -06	DB04-05
303308 -07	DB04-10
303308 -08	DB04-15
303308 -09	DB04-20
303308 -10	DB04-25
303308 -11	DB04-30
303308 -12	DB04-35
303308 -13	DB04-40
303308 -14	DB04-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-50	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-01
Date Analyzed:	03/24/13	Data File:	032408.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.070
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.25
Tetrachloroethene	4.2

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-60	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-03
Date Analyzed:	03/24/13	Data File:	032409.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	103	51	121
4-Bromofluorobenzene	101	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.080
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.20
Tetrachloroethene	0.51

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB08-70	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-05
Date Analyzed:	03/24/13	Data File:	032410.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.040
Tetrachloroethene	0.41

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-10	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-07
Date Analyzed:	03/24/13	Data File:	032411.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	102	51	121
4-Bromofluorobenzene	100	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.17

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-20	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-09
Date Analyzed:	03/24/13	Data File:	032412.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	102	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	4.5

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-35	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-12
Date Analyzed:	03/24/13	Data File:	032413.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	102	51	121
4-Bromofluorobenzene	100	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	8.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-45	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	303308-14
Date Analyzed:	03/24/13	Data File:	032414.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.28

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130321, F&BI 303308
Date Extracted:	03/22/13	Lab ID:	03-0478 mb
Date Analyzed:	03/24/13	Data File:	032407.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/26/13
Date Received: 03/21/13
Project: SOU_0797_20130321, F&BI 303308

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	72	22-139
Chloroethane	mg/kg (ppm)	2.5	53	10-163
1,1-Dichloroethene	mg/kg (ppm)	2.5	82	47-128
Methylene chloride	mg/kg (ppm)	2.5	83	42-132
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	94	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	72-113
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	97	62-131
Trichloroethene	mg/kg (ppm)	2.5	91	64-117
Tetrachloroethene	mg/kg (ppm)	2.5	93	72-114

Date of Report: 03/26/13
Date Received: 03/21/13
Project: SOU_0797_20130321, F&BI 303308

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303250-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	37	36	10-91	3
Chloroethane	mg/kg (ppm)	2.5	<0.5	44	44	10-101	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	51	52	11-103	2
Methylene chloride	mg/kg (ppm)	2.5	0.69	63 b	61 b	14-128	3 b
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	62	13-112	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	67	69	23-115	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	68	70	25-120	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	70	75	22-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	66	69	27-112	4
Trichloroethene	mg/kg (ppm)	2.5	<0.03	64	65	30-112	2
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	54	58	27-110	7

Date of Report: 03/26/13
Date Received: 03/21/13
Project: SOU_0797_20130321, F&BI 303308

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	75	42-107
Chloroethane	mg/kg (ppm)	2.5	64	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	84	65-110
Methylene chloride	mg/kg (ppm)	2.5	95	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	91	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	95	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	93	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	99	72-116
Trichloroethene	mg/kg (ppm)	2.5	95	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	99	77-110

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303308

SAMPLE CHAIN OF CUSTODY

ME 03/21/13

VS4/2 CT3

Page # 1 of 2

Send Report To Chuck Cecil

Company Sound Earth Strategies

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature): [signature]

PROJECT NAME/NO.: 0197 7th Denker

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HUR'S		X-analyzes as marked per CC Notes 3/22/13 mc
DB08-50	DB08	50	01AE	3-21-13	0810	Soil	5							X		Hold
DB08-55		55	02		0815	Soil	5									Hold
DB08-60		60	03		0820	Soil	5							X		Hold
DB08-65		65	04		0850	Soil	5									Hold
DB08-70		70	05		0855	Soil	5							X		Hold
DB04-05	DB04	05	06		1415	Soil	5									Hold
DB04-10		10	07		1420	Soil	5							X		Hold
DB04-15		15	08		1425	Soil	5									Hold
DB04-20		20	09		1430	Soil	5							X		Hold
DB04-25		25	10		1435	Soil	5									Hold
DB04-30		30	11		1440	Soil	5									Hold
DB04-35		35	12		1445	Soil	5							X		Hold
DB04-40		40	13		1450	Soil	5									Hold

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Daniel Mendel	SES	3/21/13	1520
Received by: [signature]	Nhan Phan	FEBI	3/21/13	1520
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 3 °C

303308

SAMPLE CHAIN OF CUSTODY

ME 03/21/13 VS4/Q3

Page # 2 of 2

Send Report To

Company See Page 1

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO.	PO #
0197 700 Dexter	
REMARKS	GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Hvoc's		Notes
DB04-45	DB04	45	1# 4E	3-21-13	1455	S.I.	5							X		~~Hold~~

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/21/13	1520
Received by:	Nhan Pham	FeBI	3/21/13	1520
Relinquished by:				
Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 27, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 22, 2013 from the SOU_0797_20130322, F&BI 303322 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0327R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 22, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130322, F&BI 303322 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303322 -01	DB04-50
303322 -02	DB04-55
303322 -03	DB04-60

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-50	Client:	SoundEarth Strategies
Date Received:	03/22/13	Project:	SOU_0797_20130322, F&BI 303322
Date Extracted:	03/25/13	Lab ID:	303322-01
Date Analyzed:	03/25/13	Data File:	032514.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB04-60	Client:	SoundEarth Strategies
Date Received:	03/22/13	Project:	SOU_0797_20130322, F&BI 303322
Date Extracted:	03/25/13	Lab ID:	303322-03
Date Analyzed:	03/25/13	Data File:	032516.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130322, F&BI 303322
Date Extracted:	03/25/13	Lab ID:	03-0515 mb
Date Analyzed:	03/25/13	Data File:	032512.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/27/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303322

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303322-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	64	61	10-91	5
Chloroethane	mg/kg (ppm)	2.5	<0.5	67	64	10-101	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	76	11-103	4
Methylene chloride	mg/kg (ppm)	2.5	<0.5	91	87	14-128	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	89	85	13-112	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	91	88	23-115	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	90	88	25-120	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	91	87	22-124	4
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	100	96	27-112	4
Trichloroethene	mg/kg (ppm)	2.5	<0.03	91	89	30-112	2
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	95	92	27-110	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	86	42-107
Chloroethane	mg/kg (ppm)	2.5	82	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	65-110
Methylene chloride	mg/kg (ppm)	2.5	106	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	105	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	104	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	113	72-116
Trichloroethene	mg/kg (ppm)	2.5	104	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	109	77-110

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303322

SAMPLE CHAIN OF CUSTODY ME 03-22-13

CI2/VS1

Page # 1 of 1

Send Report To Chuck Cook

Company Seattle Earth Sciences

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1400 Fax # 206 306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0747 Tax Decision

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr. pccc
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOCs		Notes
DB04-50	DB04	50	01A	3-22-13	0855	S.I.	5							X		~~hold~~
DB04-55		55	02		0900	S.I.	5									hold
DB04-60		60	03		0905	S.I.	5							X		~~hold~~
																X-pccc 3/22/13 AS

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A Hardy	SES	3-22-13	1107
Received by:		D O VO	F+BI	3/1	11
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 2, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 25, 2013 from the SOU_0797_20130325, F&BI 303364 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0402R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130325, F&BI 303364 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303364 -01	DB06-05
303364 -02	DB06-10
303364 -03	DB06-15
303364 -04	DB06-20
303364 -05	DB06-25
303364 -06	DB06-30
303364 -07	DB06-35
303364 -08	DB06-40
303364 -09	DB06-45
303364 -10	DB06-50
303364 -11	DB06-55
303364 -12	DB06-60
303364 -13	DB06-65
303364 -14	DB06-70
303364 -15	DB06-75
303364 -16	DB06-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-10	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-02
Date Analyzed:	03/26/13	Data File:	032636.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-25	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-05
Date Analyzed:	03/26/13	Data File:	032637.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.033
Tetrachloroethene	0.98

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-35	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-07
Date Analyzed:	03/26/13	Data File:	032638.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.096
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.26
Tetrachloroethene	26 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-35	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-07 1/10
Date Analyzed:	03/27/13	Data File:	032708.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	0.33
Tetrachloroethene	30

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-45	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-09
Date Analyzed:	03/27/13	Data File:	032705.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.036
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-55	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-11
Date Analyzed:	03/27/13	Data File:	032706.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.027

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-65	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-13
Date Analyzed:	03/27/13	Data File:	032707.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.029

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB06-75	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	303364-15
Date Analyzed:	03/27/13	Data File:	032642.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	03-0518 mb
Date Analyzed:	03/26/13	Data File:	032609.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130325, F&BI 303364
Date Extracted:	03/26/13	Lab ID:	03-0519 mb
Date Analyzed:	03/26/13	Data File:	032625.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/02/13
Date Received: 03/25/13
Project: SOU_0797_20130325, F&BI 303364

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303364-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	57	54	10-91	5
Chloroethane	mg/kg (ppm)	2.5	<0.5	60	56	10-101	7
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	73	71	11-103	3
Methylene chloride	mg/kg (ppm)	2.5	<0.5	87	84	14-128	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	82	81	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	86	84	23-115	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	86	84	25-120	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	85	85	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	97	96	27-112	1
Trichloroethene	mg/kg (ppm)	2.5	0.031	86	84	30-112	2
Tetrachloroethene	mg/kg (ppm)	2.5	0.92	61 b	53 b	27-110	14 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	75	42-107
Chloroethane	mg/kg (ppm)	2.5	67	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	87	65-110
Methylene chloride	mg/kg (ppm)	2.5	111	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	96	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	94	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	109	72-116
Trichloroethene	mg/kg (ppm)	2.5	96	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	101	77-110

Date of Report: 04/02/13
Date Received: 03/25/13
Project: SOU_0797_20130325, F&BI 303364

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303364-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	47	10-91	4
Chloroethane	mg/kg (ppm)	2.5	<0.5	54	50	10-101	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	63	11-103	0
Methylene chloride	mg/kg (ppm)	2.5	<0.5	77	78	14-128	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	74	75	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	79	78	23-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	80	25-120	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	78	80	22-124	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	88	90	27-112	2
Trichloroethene	mg/kg (ppm)	2.5	<0.03	81	83	30-112	2
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	85	83	27-110	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	81	42-107
Chloroethane	mg/kg (ppm)	2.5	73	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	92	65-110
Methylene chloride	mg/kg (ppm)	2.5	100	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	98	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	110	72-116
Trichloroethene	mg/kg (ppm)	2.5	100	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	104	77-110

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303364

SAMPLE CHAIN OF CUSTODY

ME 3/25/13 1224/2013

Page # 1 of 2

Send Report To Chuck Circle

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature): [signature]

PROJECT NAME/NO.: 0197 Tax Parcel

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME

- ☐ Standard (2 Weeks)
- ☒ RUSH 48hr per CC 3/26/13
- Rush charges authorized by: MG

SAMPLE DISPOSAL

- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVAC'S		Notes
DB06-05	DB06	05	01A-E	03-25-13	0830	Soil	5									X-Rush on hold per CC 3/26/13 MG. Hold
DB06-10		10	02		0835	Soil	5							X		~~Hold~~
DB06-15		15	03		0840	Soil	5									Hold
DB06-20		20	04		0845	Soil	5									Hold
DB06-25		25	05		0850	Soil	5							X		~~Hold~~
DB06-30		30	06		0855	Soil	5									Hold
DB06-35		35	07		0900	Soil	5							X		~~Hold~~
DB06-40		40	08		0905	Soil	5									Hold
DB06-45		45	09		0910	Soil	5							X		~~Hold~~
DB06-50		50	10		0915	Soil	5									Hold
DB06-55		55	11		0920	Soil	5							X		~~Hold~~
DB06-60		60	12		0955	Soil	5									Hold
DB06-65		65	13		1000	Soil	5							X		~~Hold~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	David Mendel	SES	3/25/13	1350
Received by: [signature]	Nhan Phan	FEBI	3/25/13	1350
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 8 °C

303364

SAMPLE CHAIN OF CUSTODY

ME 3/25/13 2 BI4/VS

Page 1 of 2

Send Report To _____

Company _____

Address See Page 1

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) _____

PROJECT NAME / NO. 6797 700 Dexter

PO # _____

REMARKS _____

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr per cc 3/26/13
- Rush charges authorized by: pm

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOCs by 8270	RCRA-8 Metals	Lead		Notes
DB06-70	DB06	70	14AE	3-25-13	1055	Soil	5									HLD
DB06-75	"	75	15	"	1025	Soil	5							X		HLD
DB06-80	"	80	16	"	1030	Soil	5									HLD

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/25/13	1350
Received by:	Nhan Phan	FEBI	3/25/13	1350
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 8 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 29, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 26, 2013 from the SOU_0797_20130326, F&BI 303380 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0329R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 26, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130326, F&BI 303380 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303380 -01	DB05-05
303380 -02	DB05-10
303380 -03	DB05-15
303380 -04	DB05-20
303380 -05	DB05-25
303380 -06	DB05-30
303380 -07	DB05-35
303380 -08	DB05-40
303380 -09	DB05-45
303380 -10	DB05-50
303380 -11	DB05-55
303380 -12	DB05-60
303380 -13	DB05-65
303380 -14	DB05-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-10	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-02
Date Analyzed:	03/27/13	Data File:	032713.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-20	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-04
Date Analyzed:	03/27/13	Data File:	032714.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-30	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-06
Date Analyzed:	03/27/13	Data File:	032715.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.040
Tetrachloroethene	3.2

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-40	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-08
Date Analyzed:	03/27/13	Data File:	032716.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.085
Tetrachloroethene	11 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-40	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-08 1/10
Date Analyzed:	03/27/13	Data File:	032732.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	14

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-50	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-10
Date Analyzed:	03/27/13	Data File:	032717.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-60	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-12
Date Analyzed:	03/27/13	Data File:	032718.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.34

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB05-70	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	303380-14
Date Analyzed:	03/27/13	Data File:	032719.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.033

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130326, F&BI 303380
Date Extracted:	03/27/13	Lab ID:	03-0519 mb2
Date Analyzed:	03/27/13	Data File:	032710.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 03/29/13
Date Received: 03/26/13
Project: SOU_0797_20130326, F&BI 303380

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303364-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	47	10-91	4
Chloroethane	mg/kg (ppm)	2.5	<0.5	54	50	10-101	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	63	11-103	0
Methylene chloride	mg/kg (ppm)	2.5	<0.5	77	78	14-128	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	74	75	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	79	78	23-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	79	80	25-120	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	78	80	22-124	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	88	90	27-112	2
Trichloroethene	mg/kg (ppm)	2.5	<0.03	81	83	30-112	2
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	85	83	27-110	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	81	42-107
Chloroethane	mg/kg (ppm)	2.5	73	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	92	65-110
Methylene chloride	mg/kg (ppm)	2.5	100	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	98	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	110	72-116
Trichloroethene	mg/kg (ppm)	2.5	100	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	104	77-110

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303380

SAMPLE CHAIN OF CUSTODY

ME 03/26/13 CI3/V83

1 of 2

Send Report to Chuck Cuch

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206 306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC'S		X-analyze per CC 3/26/13 Notes
DB05-05	DB05	05	01A-E	3-26-13	0820	Soil	5									Hold
DB05-10	DB05	10	02		0825	Soil	5							X		~~Hold~~
DB05-15		15	03		0830	Soil	5									Hold
DB05-20		20	04		0835	Soil	5							X		~~Hold~~
DB05-25		25	05		0840	Soil	5									Hold
DB05-30		30	06		0845	Soil	5							X		~~Hold~~
DB05-35		35	07		0850	Soil	5									Hold
DB05-40		40	08		0855	Soil	5							X		~~Hold~~
DB05-45		45	09		0900	Soil	5									Hold
DB05-50		50	10		0905	Soil	5							X		~~Hold~~
DB05-55		55	11		0910	Soil	5									Hold
DB05-60		60	12		0915	Soil	5							X		~~Hold~~
DB05-65		65	13		0920	Soil	5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hadley	SoundEarth	3-26-13	1200
Received by:	Nhan Phan	FEBI	3/26/13	1100
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

303380

SAMPLE CHAIN OF CUSTODY

ME 03/26/13 CTB/V83

Page # 2 of 2

Send Report To

Company

Address See Page 1

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO. 0747 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Hydrs		Notes
DB05-70	DB05	70	WAE	3-26-13	0925	Soil	5							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hardaway	Soundtech	3-26-13	1130
Received by:		Nhan Phan	FEBT	3/26/13	1100
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 2, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 27, 2013 from the SOU_0797_20130327, F&BI 303419 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0402R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 27, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130327, F&BI 303419 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303419 -01	DB03-05
303419 -02	DB03-15
303419 -03	DB03-20
303419 -04	DB03-25
303419 -05	DB03-30
303419 -06	DB03-35
303419 -07	DB03-40
303419 -08	DB03-45
303419 -09	DB03-50
303419 -10	DB03-55
303419 -11	DB03-60
303419 -12	DB07-05
303419 -13	DB07-10
303419 -14	DB07-15
303419 -15	DB07-20
303419 -16	DB07-25

The 8260C full concentration analysis of sample DB07-15 was partially affected by carryover from a previous sample injection. The sample was diluted and reanalyzed.

The 8260C matrix spike result for tetrachloroethene failed due to carryover from the previous sample injection. The laboratory control sample passed the acceptance criteria, therefore the data were acceptable.

1,1,1-Trichloroethane in the 8260C laboratory control sample exceeded the acceptance criteria. The analyte was not detected in the sample, therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-05	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-01
Date Analyzed:	03/28/13	Data File:	032813.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.1
Chloroethane	<1
1,1-Dichloroethene	<0.1
Methylene chloride	<1
trans-1,2-Dichloroethene	<0.1
1,1-Dichloroethane	<0.1
cis-1,2-Dichloroethene	<0.1
1,2-Dichloroethane (EDC)	<0.1
1,1,1-Trichloroethane	<0.1
Trichloroethene	<0.06
Tetrachloroethene	0.061

Note: The sample reporting limits were raised due to high moisture content.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-20	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-03
Date Analyzed:	03/28/13	Data File:	032814.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-35	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-06
Date Analyzed:	03/28/13	Data File:	032817.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-45	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-08
Date Analyzed:	03/28/13	Data File:	032818.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	2.7

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-55	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-10
Date Analyzed:	03/28/13	Data File:	032821.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.11
Tetrachloroethene	3.6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB03-60	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-11
Date Analyzed:	03/28/13	Data File:	032820.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.15
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.23
Tetrachloroethene	3.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB07-05	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-12
Date Analyzed:	03/28/13	Data File:	032819.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.076
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.084
Tetrachloroethene	2.7

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB07-15	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-14
Date Analyzed:	03/28/13	Data File:	032832.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	7.9 ve c

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB07-15	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-14 1/10
Date Analyzed:	03/29/13	Data File:	032916.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	7.1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB07-25	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-16
Date Analyzed:	03/28/13	Data File:	032831.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.067
Tetrachloroethene	8.1 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB07-25	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	303419-16 1/10
Date Analyzed:	03/29/13	Data File:	032915.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	9.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130327, F&BI 303419
Date Extracted:	03/28/13	Lab ID:	03-0522 mb
Date Analyzed:	03/28/13	Data File:	032806.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/02/13
Date Received: 03/27/13
Project: SOU_0797_20130327, F&BI 303419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303419-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.1	51	48	10-91	6
Chloroethane	mg/kg (ppm)	2.5	<1	61	58	10-101	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.1	73	68	11-103	7
Methylene chloride	mg/kg (ppm)	2.5	<1	88	83	14-128	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.1	84	78	13-112	7
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.1	86	80	23-115	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.1	88	83	25-120	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.1	87	83	22-124	5
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.1	106	97	27-112	9
Trichloroethene	mg/kg (ppm)	2.5	<0.06	90	83	30-112	8
Tetrachloroethene	mg/kg (ppm)	2.5	0.029	614 c	271 c	27-110	78 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	80	42-107
Chloroethane	mg/kg (ppm)	2.5	77	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	96	65-110
Methylene chloride	mg/kg (ppm)	2.5	108	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	104	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	102	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	120 vo	72-116
Trichloroethene	mg/kg (ppm)	2.5	104	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	109	77-110

Date of Report: 04/02/13
Date Received: 03/27/13
Project: SOU_0797_20130327, F&BI 303419

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	81	22-139
Chloroethane	mg/kg (ppm)	2.5	84	10-163
1,1-Dichloroethene	mg/kg (ppm)	2.5	95	47-128
Methylene chloride	mg/kg (ppm)	2.5	94	42-132
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	106	72-113
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	103	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	102	62-131
Trichloroethene	mg/kg (ppm)	2.5	102	64-117
Tetrachloroethene	mg/kg (ppm)	2.5	103	72-114

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303419

SAMPLE CHAIN OF CUSTODY

ME 03/27/13

VS4/603

Page # 1 of 2

Send Report To Chuck Cook

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 7th Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		Notes X=analyses as marked per CC 3/27/13
DB03-05	DB03	05	01 AE	3-27-13	0835	Soil	5							X		~~Hold~~
~~DB03-10~~		~~10~~			~~0840~~	~~Soil~~	~~5~~									~~Hold~~
DB03-15		15	02 AE	3-27-13	0845	Soil	5									Hold
DB03-20		20	03		0850	Soil	5							X		~~Hold~~
DB03-25		25	04		0855	Soil	5									Hold
DB03-30		30	05		0900	Soil	5									Hold
DB03-35		35	06		0905	Soil	5							X		~~Hold~~
DB03-40		40	07		0910	Soil	5									Hold
DB03-45		45	08		0915	Soil	5							X		~~Hold~~
DB03-50		50	09		0920	Soil	5									Hold
DB03-55		55	10		0925	Soil	5							X		~~Hold~~
DB03-60	DB03	60	11		0930	Soil	5							X		~~Hold~~
DB07-05	DB07	05	12		1255	Soil	5							X		~~Hold~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/27/13	1350
Received by:	DO VO	F&B	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 5 °C

303419

SAMPLE CHAIN OF CUSTODY

ME 03/27/13

VS4/E03

Page # 2 of 2

Send Report To See Page 1

Company

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO.
0797
700 Dayton

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		Notes
								ANALYSES REQUESTED								
DB07-10	DB07	10	13 A-E	3-27-13	1300	Soil	5									Hold
DB07-15	"	15	14 A-E	"	1305	Soil	5							X		~~Hold~~
DB07-20	"	20	15 A-E	"	1310	Soil	5									Hold
DB07-25	"	25	16 A-E	"	1315	Soil	5							X		Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mandel	SES	3/28/13	1350
Received by:	DU	F&B	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 3, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 28, 2013 from the SOU_0797_20130328, F&BI 303447 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0403R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 28, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130328, F&BI 303447 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303447 -01	BD07-35
303447 -02	BD07-40
303447 -03	BD07-45
303447 -04	BD07-50
303447 -05	BD07-60
303447 -06	BD07-65
303447 -07	BD07-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-35	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	303447-01
Date Analyzed:	03/29/13	Data File:	032932.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.088
Tetrachloroethene	12 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-35	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	303447-01 1/10
Date Analyzed:	04/01/13	Data File:	040110.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	16

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-45	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	04/01/13	Lab ID:	303447-03
Date Analyzed:	04/01/13	Data File:	040130.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.42
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.72
Tetrachloroethene	13 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-45	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	04/01/13	Lab ID:	303447-03 1/10
Date Analyzed:	04/01/13	Data File:	040111.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	103	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	0.52
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	0.83
Tetrachloroethene	13

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-50	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	303447-04
Date Analyzed:	03/29/13	Data File:	032930.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.16
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.19
Tetrachloroethene	7.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-60	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	303447-05
Date Analyzed:	03/29/13	Data File:	032928.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.53
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.92
Tetrachloroethene	1.5

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BD07-70	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	303447-07
Date Analyzed:	03/29/13	Data File:	032929.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	96	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.41
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.96
Tetrachloroethene	5.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130328, F&BI 303447
Date Extracted:	03/29/13	Lab ID:	03-0557 mb
Date Analyzed:	03/29/13	Data File:	032925.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/03/13
Date Received: 03/28/13
Project: SOU_0797_20130328, F&BI 303447

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303447-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	43	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	57	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	77	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	0.49	87	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	75	10-156
Trichloroethene	mg/kg (ppm)	2.5	0.85	82 b	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	1.4	81 b	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	81	79	22-139	2
Chloroethane	mg/kg (ppm)	2.5	89	84	10-163	6
1,1-Dichloroethene	mg/kg (ppm)	2.5	93	93	47-128	0
Methylene chloride	mg/kg (ppm)	2.5	93	92	42-132	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	100	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	100	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	103	72-113	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	103	103	56-135	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	102	101	62-131	1
Trichloroethene	mg/kg (ppm)	2.5	102	102	64-117	0
Tetrachloroethene	mg/kg (ppm)	2.5	104	103	72-114	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303447

SAMPLE CHAIN OF CUSTODY

ME 03/28/13

VS2/ EO2

Send Report To Chuck Cook

Company SoundEarth Strategies

Address 2811 Fuhrman Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1906 Fax # 206 306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hr

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Hwe's		Notes
DB07-35	DB07	35	01	3-28-13	0800	Soil	5							X		X-per cc 3/28/13 ms
DB07-40		40	02		0825	Soil	5									Hold
DB07-45		45	03		0810	Soil	5							X		Hold
DB07-50		50	04		1325	Soil	5							X		Hold
DB07-60		60	05		1340	Soil	5							X		Hold
DB07-65		65	06		1345	Soil	5									Hold
DB07-70		70	07		1350	Soil	5							X		Hold

ANALYSES REQUESTED

Samples received at 6 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hardigree	SoundEarth	3-28-13	1510
Received by:	DO	FedEx	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at _____ °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 3, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 29, 2013 from the SOU_0797_20130329, F&BI 303469 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0403R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 29, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130329, F&BI 303469 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303469 -01	DB10-05
303469 -02	DB10-10
303469 -03	DB10-15
303469 -04	DB10-20
303469 -05	DB10-25
303469 -06	DB10-30
303469 -07	DB10-35
303469 -08	DB10-40
303469 -09	DB10-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-10	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	303469-02
Date Analyzed:	04/01/13	Data File:	040117.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.34

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-20	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	303469-04
Date Analyzed:	03/29/13	Data File:	032937.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.11
Tetrachloroethene	13 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-20	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	303469-04 1/10
Date Analyzed:	04/01/13	Data File:	040112.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	23

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-35	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	303469-07 1/10
Date Analyzed:	04/01/13	Data File:	040113.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	0.40
Tetrachloroethene	35

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-45	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	303469-09 1/10
Date Analyzed:	03/29/13	Data File:	032940.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	57

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130329, F&BI 303469
Date Extracted:	03/29/13	Lab ID:	03-0557 mb
Date Analyzed:	03/29/13	Data File:	032925.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/03/13
Date Received: 03/29/13
Project: SOU_0797_20130329, F&BI 303469

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303447-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	43	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	57	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	65	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	70	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	77	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	0.49	87	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	80	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	75	10-156
Trichloroethene	mg/kg (ppm)	2.5	0.85	82 b	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	1.4	81 b	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	81	79	22-139	2
Chloroethane	mg/kg (ppm)	2.5	89	84	10-163	6
1,1-Dichloroethene	mg/kg (ppm)	2.5	93	93	47-128	0
Methylene chloride	mg/kg (ppm)	2.5	93	92	42-132	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	100	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	100	68-115	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	103	72-113	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	103	103	56-135	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	102	101	62-131	1
Trichloroethene	mg/kg (ppm)	2.5	102	102	64-117	0
Tetrachloroethene	mg/kg (ppm)	2.5	104	103	72-114	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303469

SAMPLE CHAIN OF CUSTODY

ME 03/29/13 CT3/VSZ

Page # 1 of 1

[redacted]

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [redacted]

PROJECT NAME/NO. 0797 750 Dexter

PO #

REMARKS Very high concentrations expected in DB10-35

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 48h
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hvoc's					X-porcc 3/29/13 Notes
																	PID
DB10-05	01 A-E	3-29-13	0845	Soil	5												Hold 0.5
DB10-10	02		0850	Soil	5							X					~~Hold~~ 6.8
DB10-15	03		0855	Soil	5												Hold 65.7
DB10-20	04		0900	Soil	5							X					~~Hold~~ 120
DB10-25	05		0905	Soil	5												Hold 5
DB10-30	06		0910	Soil	5												Hold 400
~~DB10~~ DB10-35	07		0915	Soil	5							X					~~Hold~~ 7,500
DB10-40	08		0920	Soil	5												Hold 92
DB10-45	09		1035	Soil	5							Y					Field 82.

ANALYSES REQUESTED

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Merkel	SES	3/29/13	1100
Received by:	Nhan Pham	FEBT	3/29/13	1100
Relinquished by:				
Received by:				

Samples received at 5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 5, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 1, 2013 from the SOU_0797_20130401, F&BI 304008 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0405R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 1, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130401, F&BI 304008 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304008 -01	DB10-50
304008 -02	DB10-55
304008 -03	DB10-60
304008 -04	DB10-65
304008 -05	DB10-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-50	Client:	SoundEarth Strategies
Date Received:	04/01/13	Project:	SOU_0797_20130401, F&BI 304008
Date Extracted:	04/01/13	Lab ID:	304008-01
Date Analyzed:	04/01/13	Data File:	040135.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.26
Tetrachloroethene	52 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-50	Client:	SoundEarth Strategies
Date Received:	04/01/13	Project:	SOU_0797_20130401, F&BI 304008
Date Extracted:	04/01/13	Lab ID:	304008-01 1/10
Date Analyzed:	04/01/13	Data File:	040133.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	52

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-60	Client:	SoundEarth Strategies
Date Received:	04/01/13	Project:	SOU_0797_20130401, F&BI 304008
Date Extracted:	04/01/13	Lab ID:	304008-03
Date Analyzed:	04/01/13	Data File:	040132.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	2.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB10-70	Client:	SoundEarth Strategies
Date Received:	04/01/13	Project:	SOU_0797_20130401, F&BI 304008
Date Extracted:	04/01/13	Lab ID:	304008-05
Date Analyzed:	04/02/13	Data File:	040208.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.035
Tetrachloroethene	1.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130401, F&BI 304008
Date Extracted:	04/01/13	Lab ID:	03-0559 mb
Date Analyzed:	04/01/13	Data File:	040122.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	100	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/05/13
Date Received: 04/01/13
Project: SOU_0797_20130401, F&BI 304008

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 304001-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	42	42	10-138	0
Chloroethane	mg/kg (ppm)	2.5	<0.5	51	51	10-176	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	60	56	10-160	7
Methylene chloride	mg/kg (ppm)	2.5	<0.5	74	71	10-156	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	69	67	14-137	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	72	70	19-140	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	76	74	25-135	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	78	77	12-160	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	71	70	10-156	1
Trichloroethene	mg/kg (ppm)	2.5	<0.03	74	72	21-139	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	75	73	20-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	62	22-139
Chloroethane	mg/kg (ppm)	2.5	72	10-163
1,1-Dichloroethene	mg/kg (ppm)	2.5	86	47-128
Methylene chloride	mg/kg (ppm)	2.5	89	42-132
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	67-127
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	72-113
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	103	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	100	62-131
Trichloroethene	mg/kg (ppm)	2.5	100	64-117
Tetrachloroethene	mg/kg (ppm)	2.5	102	72-114

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304008

SAMPLE CHAIN OF CUSTODY ME 04-01-13 VS2/~~A03~~ CI2

Send Report To Chuck Cuck
Company SoundEarth Strategies
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 0797 Two Dexter
PO #
REMARKS

Page # 1 of 1

TURNAROUND TIME
☐ Standard (2 Weeks)
☒ RUSH 48 hr TAT per cc 4/1/13
Rush charges authorized by: MS

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HVOCs					Notes
DB10-50	01 A-E	4-1-13	0825	Soil	5							X					~~HVOA~~ 425
DB10-55	02		0830	Soil	5												HVOA
DB10-60	03		0835	Soil	5							X					~~HVOA~~ 28.9
DB10-65	04		0840	Soil	5												HVOA
DB10-70	05		0845	Soil	5							X					~~HVOA~~ 6.3

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hardinger	SoundEarth	4-1-13	1220
Received by:		James Bruya	F&B	4-1-13 4-11	1220
Relinquished by:					
Received by:					

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 5, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 2, 2013 from the SOU_0797_20130402, F&BI 304045 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0405R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 2, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130402, F&BI 304045 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304045 -01	DB11-05
304045 -02	DB11-10
304045 -03	DB11-15
304045 -04	DB11-20
304045 -05	DB11-25
304045 -06	DB11-30
304045 -07	DB11-35
304045 -08	DB11-40
304045 -09	DB11-45
304045 -10	DB11-50
304045 -11	DB11-55

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-15	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-03
Date Analyzed:	04/02/13	Data File:	040239.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	98	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-25	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-05
Date Analyzed:	04/02/13	Data File:	040240.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	59	116
Toluene-d8	102	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.028

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-35	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-07
Date Analyzed:	04/02/13	Data File:	040241.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	99	51	121
4-Bromofluorobenzene	99	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-45	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-09
Date Analyzed:	04/02/13	Data File:	040242.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	97	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.12
Tetrachloroethene	9.2 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-45	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-09 1/10
Date Analyzed:	04/03/13	Data File:	040306.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	100	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	15

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB11-55	Client:	SoundEarth Strategies
Date Received:	04/02/13	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	304045-11
Date Analyzed:	04/03/13	Data File:	040305.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.16

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130402, F&BI 304045
Date Extracted:	04/02/13	Lab ID:	03-0561 mb
Date Analyzed:	04/02/13	Data File:	040229.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	59	116
Toluene-d8	101	51	121
4-Bromofluorobenzene	98	32	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/05/13
Date Received: 04/02/13
Project: SOU_0797_20130402, F&BI 304045

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 304032-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	39	10-138
Chloroethane	mg/kg (ppm)	2.5	<0.5	49	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	58	10-160
Methylene chloride	mg/kg (ppm)	2.5	<0.5	68	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	69	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	72	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	78	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	77	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	69	10-156
Trichloroethene	mg/kg (ppm)	2.5	<0.03	72	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	67	20-133

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	81	78	22-139	4
Chloroethane	mg/kg (ppm)	2.5	83	81	10-163	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	101	95	47-128	6
Methylene chloride	mg/kg (ppm)	2.5	98	92	42-132	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	108	103	67-127	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	106	101	68-115	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	109	104	72-113	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	109	103	56-135	6
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	107	103	62-131	4
Trichloroethene	mg/kg (ppm)	2.5	107	103	64-117	4
Tetrachloroethene	mg/kg (ppm)	2.5	109	105	72-114	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304045

SAMPLE CHAIN OF CUSTODY

NE 04-02-13 103/V34

Page # 1 of 2

Send Report To Chuck Cook

Company Sound Earth Strategies

Address 2811 Fairview Ave E Ste 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1400 Fax # 206-306-1907

SAMPLERS (signature): [signature]

PROJECT NAME/NO.: 0797 700 Dexter

PO #:

REMARKS:

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PAH's					X-per CC 4/2/13 mg Notes
DB11-05	01 A-E	4-2-13	1100	Soil	5												Hold
DB11-10	02		1105	Soil	5												Hold
DB11-15	03		1110	Soil	5							X					~~Hold~~
DB11-20	04		1115	Soil	5												Hold
DB11-25	05		1130	Soil	5							X					~~Hold~~
DB11-30	06		1135	Soil	5												Hold
DB11-35	07		1140	Soil	5							X					~~Hold~~
DB11-40	08		1145	Soil	5												Hold
DB11-45	09		1150	Soil	5							X					~~Hold~~
DB11-50	10		1155	Soil	4												Hold

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	David Mandel	SES	4/2/13	1330
Received by:	[signature]	HONG NGUYEN	FBI	4/2/13	
Relinquished by:					
Received by:					

Samples received at 5 °C

304045

SAMPLE CHAIN OF CUSTODY

ME 04-02-13 A03/V54

Send Report To

Company See Page 1

Address

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO. 0747 700 Dexter

PO #

REMARKS

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hydrides						Notes
DB1-55	11A-E	4-2-13	1200	Soil	5							X						~~HOLD~~

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	4/2/13	1330
Received by:	HONG NGUYEN	FBI	V	V
Relinquished by:				
Received by:				

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 9, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 3, 2013 from the SOU_0797_20130403, F&BI 304067 project. There is 15 page included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0409R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 3, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130403, F&BI 304067 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304067 -01	DB12-05
304067 -02	DB12-10
304067 -03	DB12-15
304067 -04	DB12-20
304067 -05	DB12-25
304067 -06	DB12-30
304067 -07	DB12-35
304067 -08	DB12-40
304067 -09	DB12-45
304067 -10	DB13-05
304067 -11	DB13-10
304067 -12	DB13-15
304067 -13	DB13-20
304067 -14	DB13-30
304067 -15	DB13-35
304067 -16	DB13-40
304067 -17	DB13-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-10	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-02
Date Analyzed:	04/04/13	Data File:	040409.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.068

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-20	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-04
Date Analyzed:	04/04/13	Data File:	040418.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	1.6
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.56
Tetrachloroethene	20 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-20	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-04 1/10
Date Analyzed:	04/04/13	Data File:	040414.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	1.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	0.66
Tetrachloroethene	18

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-30	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-06
Date Analyzed:	04/04/13	Data File:	040417.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.052
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.032
Tetrachloroethene	6.7 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-30	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-06 1/10
Date Analyzed:	04/04/13	Data File:	040413.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	6.7

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-40	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-08
Date Analyzed:	04/04/13	Data File:	040415.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.060
Tetrachloroethene	9.2 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB12-40	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-08 1/10
Date Analyzed:	04/04/13	Data File:	040421.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.5
Chloroethane	<5
1,1-Dichloroethene	<0.5
Methylene chloride	<5
trans-1,2-Dichloroethene	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-Dichloroethene	<0.5
1,2-Dichloroethane (EDC)	<0.5
1,1,1-Trichloroethane	<0.5
Trichloroethene	<0.3
Tetrachloroethene	11

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB13-10	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-11
Date Analyzed:	04/04/13	Data File:	040416.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.12

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB13-20	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-13
Date Analyzed:	04/04/13	Data File:	040411.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.78

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB13-35	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-15
Date Analyzed:	04/04/13	Data File:	040412.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.063
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	0.24
Tetrachloroethene	2.7

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB13-45	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	304067-17
Date Analyzed:	04/04/13	Data File:	040410.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.066

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130403, F&BI 304067
Date Extracted:	04/04/13	Lab ID:	03-0593 mb2
Date Analyzed:	04/04/13	Data File:	040407.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/09/13
Date Received: 04/03/13
Project: SOU_0797_20130403, F&BI 304067

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303490-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	44	10-91
Chloroethane	mg/kg (ppm)	2.5	<0.5	54	10-101
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	54	11-103
Methylene chloride	mg/kg (ppm)	2.5	<0.5	63	14-128
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	61	13-112
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	71	23-115
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	25-120
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	72	22-124
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	65	27-112
Trichloroethene	mg/kg (ppm)	2.5	<0.03	60	30-112
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	45	27-110

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	81	82	42-107	1
Chloroethane	mg/kg (ppm)	2.5	66	68	47-115	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	91	91	65-110	0
Methylene chloride	mg/kg (ppm)	2.5	87	88	62-119	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	98	71-113	0
1,1-Dichloroethane	mg/kg (ppm)	2.5	100	100	76-109	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	100	77-110	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	100	80-109	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	103	103	72-116	0
Trichloroethene	mg/kg (ppm)	2.5	99	99	72-107	0
Tetrachloroethene	mg/kg (ppm)	2.5	104	102	77-110	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304067

SAMPLE CHAIN OF CUSTODY ME 04/03/12 VSY/AOY

Send Report To Chuck Cook
Company Sound Earth Strategies
Address 2811 Fuhrman Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206 306-1400 Fax # 206-306-1407

SAMPLERS (signature)
PROJECT NAME/NO. 0497 700 Dexter
PO #
REMARKS

Page # 1 of 2

TURNAROUND TIME
☐ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hvoc's					Notes
						ANALYSES REQUESTED											X-per cc 4/3/13 ms
DB12-05	01 A-E	4-3-13	0830	Soil	5												Hold
DB12-10	02	4-3-13	0835	Soil	5							X					~~Hold~~
DB12-15	03		0855	Soil	5												Hold
DB12-20	04		0900	Soil	5							X					~~Hold~~
DB12-25	05		0905	Soil	5												Hold
DB12-30	06		0910	Soil	5							X					~~Hold~~
DB12-35	07		0915	Soil	5												Hold
DB12-40	08		0920	Soil	5							X					~~Hold~~
DB12-45	09		0925	Soil	5												Hold
DB13-05	10	~~DELETE~~	1050	Soil	5												

Samples received at 7 Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hamburger	SES	4-3-13	1257
Received by:		FBI	4-7-13	1257
Relinquished by:				
Received by:				

Samples received at 7 Hold

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

304067

SAMPLE CHAIN OF CUSTODY

ME 04/03/13 VS4/A04

Send Report To

Company

Address See Page 1

City, State, ZIP

Phone # Fax #

SAMPLERS (signature)

PROJECT NAME/NO. 0707 7-10 Days

PO #

REMARKS

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals					Notes
DB13-10	11 A-E	4-3-13	1055	Soil	5							X					~~Hold~~
DB13-15	12		1115	Soil	5												Hold
DB13-20	13		1120	Soil	5							X					~~Hold~~
DB13-30	14		1130	Soil	5												Hold
DB13-35	15		1135	Soil	5							X					~~Hold~~
DB13-40	16		1140	SOIL	5												* Added at lab
DB13-45	17		1145	SOIL	5							X					(ND) 4-3-13

Samples received at 7 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hershberger	SES	~~4-3-13~~ 4-3-13	1257
Received by:		VINH	FBI	4-3-13	1257
Relinquished by:					
Received by:					

~~Samples received at~~ 7° (ND)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 11, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 4, 2013 from the SOU_0797_20130404, F&BI 304101 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0411R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 4, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130404, F&BI 304101 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304101 -01	DB14-05
304101 -02	DB14-10
304101 -03	DB14-15
304101 -04	DB14-20
304101 -05	DB14-25
304101 -06	DB14-30
304101 -07	DB14-35
304101 -08	DB14-40
304101 -09	DB14-45

All quality control requirements were acceptable.

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304101
Date Extracted: 04/05/13
Date Analyzed: 04/05/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-132)
DB14-10 304101-02	0.059	0.41	1.2	3.6	260	119
DB14-15 304101-03	<0.02	0.078	0.29	1.0	73	128
Method Blank 03-0578 MB	<0.02	<0.02	<0.02	<0.06	<2	108

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB14-10	Client:	SoundEarth Strategies
Date Received:	04/04/13	Project:	SOU_0797_20130404, F&BI 304101
Date Extracted:	04/05/13	Lab ID:	304101-02
Date Analyzed:	04/05/13	Data File:	040524.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB14-20	Client:	SoundEarth Strategies
Date Received:	04/04/13	Project:	SOU_0797_20130404, F&BI 304101
Date Extracted:	04/05/13	Lab ID:	304101-04
Date Analyzed:	04/05/13	Data File:	040510.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB14-30	Client:	SoundEarth Strategies
Date Received:	04/04/13	Project:	SOU_0797_20130404, F&BI 304101
Date Extracted:	04/05/13	Lab ID:	304101-06
Date Analyzed:	04/05/13	Data File:	040511.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB14-40	Client:	SoundEarth Strategies
Date Received:	04/04/13	Project:	SOU_0797_20130404, F&BI 304101
Date Extracted:	04/05/13	Lab ID:	304101-08
Date Analyzed:	04/05/13	Data File:	040512.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	0.077
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	0.050

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20130404, F&BI 304101
Date Extracted:	04/05/13	Lab ID:	03-0596 mb
Date Analyzed:	04/05/13	Data File:	040508.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.03
Tetrachloroethene	<0.025

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 304071-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	78	69-120
Toluene	mg/kg (ppm)	0.5	82	70-117
Ethylbenzene	mg/kg (ppm)	0.5	83	65-123
Xylenes	mg/kg (ppm)	1.5	83	66-120
Gasoline	mg/kg (ppm)	20	90	71-131

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 304123-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	53	60	10-91	12
Chloroethane	mg/kg (ppm)	2.5	<0.5	59	63	10-101	7
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	72	77	11-103	7
Methylene chloride	mg/kg (ppm)	2.5	<0.5	73	78	14-128	7
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	78	83	13-112	6
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	82	88	23-115	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	82	90	25-120	9
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	82	90	22-124	9
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	86	92	27-112	7
Trichloroethene	mg/kg (ppm)	2.5	<0.03	82	90	30-112	9
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	85	93	27-110	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2.5	79	42-107
Chloroethane	mg/kg (ppm)	2.5	71	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	89	65-110
Methylene chloride	mg/kg (ppm)	2.5	85	62-119
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	96	76-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	95	77-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	97	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	101	72-116
Trichloroethene	mg/kg (ppm)	2.5	96	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	98	77-110

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304101

SAMPLE CHAIN OF CUSTODY

ME 04-04-13

1 A03 / KS2

Page # 1 of 1

Send Report To Chuck Cook

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 Tow Dock

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH ~~48 hr TAT~~ 24 hr TAT per CC ms 4/4/13
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		X-perCC 4/4/13 mc. Notes
DB14-05	DB14	05	01 AF	4-4-13	0825	Soil	5									Hold
DB14-10		10	02		0830	Soil	5		X	X				X		~~Hold~~
DB14-15		15	03		0845	Soil	5		X	X						Hold
DB14-20		20	04		0850	Soil	5							X		~~Hold~~
DB14-25		25	05		0855	Soil	5									Hold
DB14-30		30	06		0900	Soil	5							X		~~Hold~~
DB14-35		35	07		0905	Soil	5									Hold
DB14-40		40	08		0910	Soil	5							X		~~Hold~~
DB14-45		45	09		0915	Soil	5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Merkel	SES	4/4/13	1045
Received by:	DI UO	F+BI	11	4
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 5 °C

Groundwater

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 4, 2010

Suzy Reilly, Project Manager
Sound Environmental Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Reilly:

Included are the results from the testing of material submitted on May 3, 2010 from the SOU_0700-002-02_20100503, F&BI 005003 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: John Funderburk
SOU0504R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2010 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0700-002-02_20100503, F&BI 005003 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
005003-01	BB12A-20100502
005003-02	BB12-20100502
005003-03	BB13-20100502

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB12A-20100502	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503
Date Extracted:	05/03/10	Lab ID:	005003-01
Date Analyzed:	05/03/10	Data File:	050309.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	107	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB12-20100502	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503
Date Extracted:	05/03/10	Lab ID:	005003-02
Date Analyzed:	05/03/10	Data File:	050310.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	104	65	127
4-Bromofluorobenzene	103	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB13-20100502	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503
Date Extracted:	05/03/10	Lab ID:	005003-03
Date Analyzed:	05/03/10	Data File:	050311.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	104	65	127
4-Bromofluorobenzene	104	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Sound Environmental Strategies
Date Received:	Not Applicable	Project:	SOU_0700-002-02_20100503
Date Extracted:	05/03/10	Lab ID:	00619 mb
Date Analyzed:	05/03/10	Data File:	050308.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	105	65	127
4-Bromofluorobenzene	103	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 05/04/10
Date Received: 05/03/10
Project: SOU_0700-002-02_20100503, F&BI 005003

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 005003-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	<0.2	<0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: 005003-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	115	38-157
Chloroethane	ug/L (ppb)	50	<1	107	10-172
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	35-149
Methylene chloride	ug/L (ppb)	50	<5	93	66-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	65-128
1,1-Dichloroethane	ug/L (ppb)	50	<1	105	67-127
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	111	71-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	68-132
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	109	63-135
Trichloroethene	ug/L (ppb)	50	<1	110	72-120
Tetrachloroethene	ug/L (ppb)	50	<1	108	71-126

Date of Report: 05/04/10
Date Received: 05/03/10
Project: SOU_0700-002-02_20100503, F&BI 005003

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	122	116	53-131	5
Chloroethane	ug/L (ppb)	50	110	101	52-127	9
1,1-Dichloroethene	ug/L (ppb)	50	114	110	68-131	4
Methylene chloride	ug/L (ppb)	50	100	96	17-177	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	108	103	71-128	5
1,1-Dichloroethane	ug/L (ppb)	50	107	104	74-118	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	111	108	74-126	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	100	77-118	2
1,1,1-Trichloroethane	ug/L (ppb)	50	108	106	77-123	2
Trichloroethene	ug/L (ppb)	50	108	106	74-119	2
Tetrachloroethene	ug/L (ppb)	50	110	107	86-121	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

005003

SAMPLE CHAIN OF CUSTODY ME 05/03/10

V2

Page # 1 of 1

Send Report To Suzy Reilly
Company Sound Environmental Strategies
Address 2811 Fairview Ave. E., Suite 200
City, State, ZIP Seattle, WA 98102
Phone # 206.306.1900 Fax # 306.1907

SAMPLERS (signature) L. Namba

PROJECT NAME/NO. 700 Dexter

PO #

REMARKS Please call Suzy for the Turn-around time required

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC		Notes
BB12A-20100502	BB12A	18.5	01 A-C	05/02/10	0809	water	3							✓		
BB12-20100502	BB12	35	02 A-C	05/02/10	0853	water	3							✓		
BB13-20100502	BB13	38	03 A-C	05/02/10	0946	water	3							✓		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Larry Namba	SES	05/03/10	0835
Received by:	Nhan Phan	FEBT	5/3/10	0835
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 7, 2010

Suzy Reilly, Project Manager
Sound Environmental Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Reilly:

Included are the results from the testing of material submitted on May 3, 2010 from the SOU_0700-002-02_20100503, F&BI 005010 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: John Funderburk
SOU0507R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2010 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0700-002-02_20100503, F&BI 005010 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
005010-01	MW6-20100503
005010-02	BB-8-20100503
005010-03	BB-8A-20100503

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW6-20100503	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	005010-01
Date Analyzed:	05/03/10	Data File:	050315.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	101	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.8
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.2
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20100503	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	005010-02
Date Analyzed:	05/03/10	Data File:	050316.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	103	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.27
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	110
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	120
Tetrachloroethene	830 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20100503	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	005010-02 1/10
Date Analyzed:	05/04/10	Data File:	050350.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	104	65	127
4-Bromofluorobenzene	103	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<2
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	90
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	100
Tetrachloroethene	510

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8A-20100503	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	005010-03
Date Analyzed:	05/03/10	Data File:	050317.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	100	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.78
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	1.6
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	220 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	210 ve
Tetrachloroethene	1,800 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8A-20100503	Client:	Sound Environmental Strategies
Date Received:	05/03/10	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	005010-03 1/100
Date Analyzed:	05/04/10	Data File:	050351.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	100	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	140
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	180
Tetrachloroethene	810

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Sound Environmental Strategies
Date Received:	Not Applicable	Project:	SOU_0700-002-02_20100503, F&BI 005010
Date Extracted:	05/03/10	Lab ID:	00619 mb
Date Analyzed:	05/03/10	Data File:	050308.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	105	65	127
4-Bromofluorobenzene	103	69	127

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 05/07/10
Date Received: 05/03/10
Project: SOU_0700-002-02_20100503, F&BI 005010

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 005003-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	<0.2	<0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: 005003-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	115	38-157
Chloroethane	ug/L (ppb)	50	<1	107	10-172
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	35-149
Methylene chloride	ug/L (ppb)	50	<5	93	66-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	65-128
1,1-Dichloroethane	ug/L (ppb)	50	<1	105	67-127
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	111	71-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	68-132
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	109	63-135
Trichloroethene	ug/L (ppb)	50	<1	110	72-120
Tetrachloroethene	ug/L (ppb)	50	<1	108	71-126

Date of Report: 05/07/10
Date Received: 05/03/10
Project: SOU_0700-002-02_20100503, F&BI 005010

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	122	116	53-131	5
Chloroethane	ug/L (ppb)	50	110	101	52-127	9
1,1-Dichloroethene	ug/L (ppb)	50	114	110	68-131	4
Methylene chloride	ug/L (ppb)	50	100	96	17-177	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	108	103	71-128	5
1,1-Dichloroethane	ug/L (ppb)	50	107	104	74-118	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	111	108	74-126	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	100	77-118	2
1,1,1-Trichloroethane	ug/L (ppb)	50	108	106	77-123	2
Trichloroethene	ug/L (ppb)	50	108	106	74-119	2
Tetrachloroethene	ug/L (ppb)	50	110	107	86-121	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

005010

SAMPLE CHAIN OF CUSTODY ME 05/03/10

Page # 1 of 1

Send Report To John Fairbank, Suzy Kelly

Company Sound Environmental Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter

PO # 3202-003-02 Task 400

REMARKS

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24 hour TAT

Rush charges authorized by: KMT

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

	Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CVOC, PAH 8260B					Notes
R-MW6	~~R-MW6~~-20100503	01A-C	05/03/10	1174	W	3							X					
BB-8	~~BB-8~~A-20100503	02A-C	05/03/10	1203	W	3							X					
BB-8A	~~BB-8~~-20100503	03A-C	05/03/10	1234	W	3							X					
	charges per sReman 5/5/10 mj																	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Kevin Thompson	S+S	5/3/10	1305
Received by:		Khan Phan	FEBT	5/3/10	1305
Relinquished by:					
Received by:					

Samples received at 11 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 20, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the additional results from the testing of material submitted on June 2, 2011 from the SOU_0797-001-01_20110602, F&BI 106038 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Tom Cammarata, Otto Paris, Ryan Bixby
SOU0620R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 2, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-01_20110602, F&BI 106038 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106038-01	R-MW1-20110602
106038-02	R-MW2-20110602
106038-03	R-MW3-20110602
106038-04	R-MW5-20110602
106038-05	R-MW6-20110602
106038-06	G-MW2-20110602
106038-07	G-MW3-20110602
106038-08	BB-8-20110602
106038-09	BB-84-20110602
106038-10	MW9-20110602
106038-11	Trip Blank

All quality control requirements were acceptable.

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038
Date Extracted: 06/15/11 and 06/16/11
Date Analyzed: 06/15/11 and 06/16/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 52-124)
MW9-20110602 106038-10	<1	<1	<1	<3	<100	103
Method Blank 01-1095 MB	<1	<1	<1	<3	<100	79

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038
Date Extracted: 06/16/11
Date Analyzed: 06/17/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
MW9-20110602 106038-10	<50	<250	92
Method Blank 01-1097 MB	<50	<250	89

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038
Date Extracted: 06/16/11
Date Analyzed: 06/17/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW9-20110602 106038-10	150 x	<250	78
Method Blank 01-1097 MB	<50	<250	73

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 106186-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	2.1	2.7	25 a
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	102	65-118
Toluene	ug/L (ppb)	50	100	72-122
Ethylbenzene	ug/L (ppb)	50	101	73-126
Xylenes	ug/L (ppb)	150	101	74-118
Gasoline	ug/L (ppb)	1,000	100	69-134

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	112	63-142	4

Date of Report: 06/20/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	99	98	61-133	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

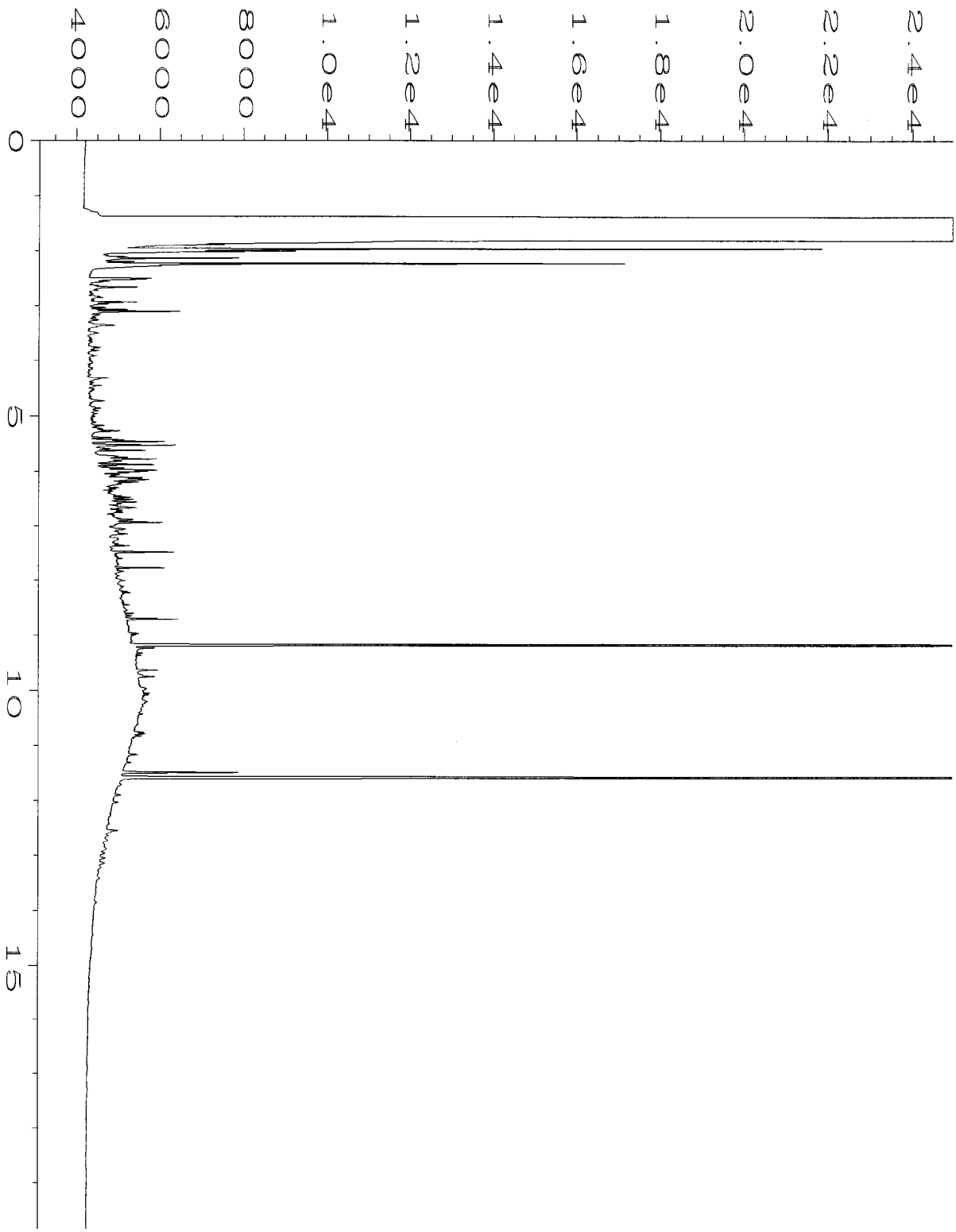
pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

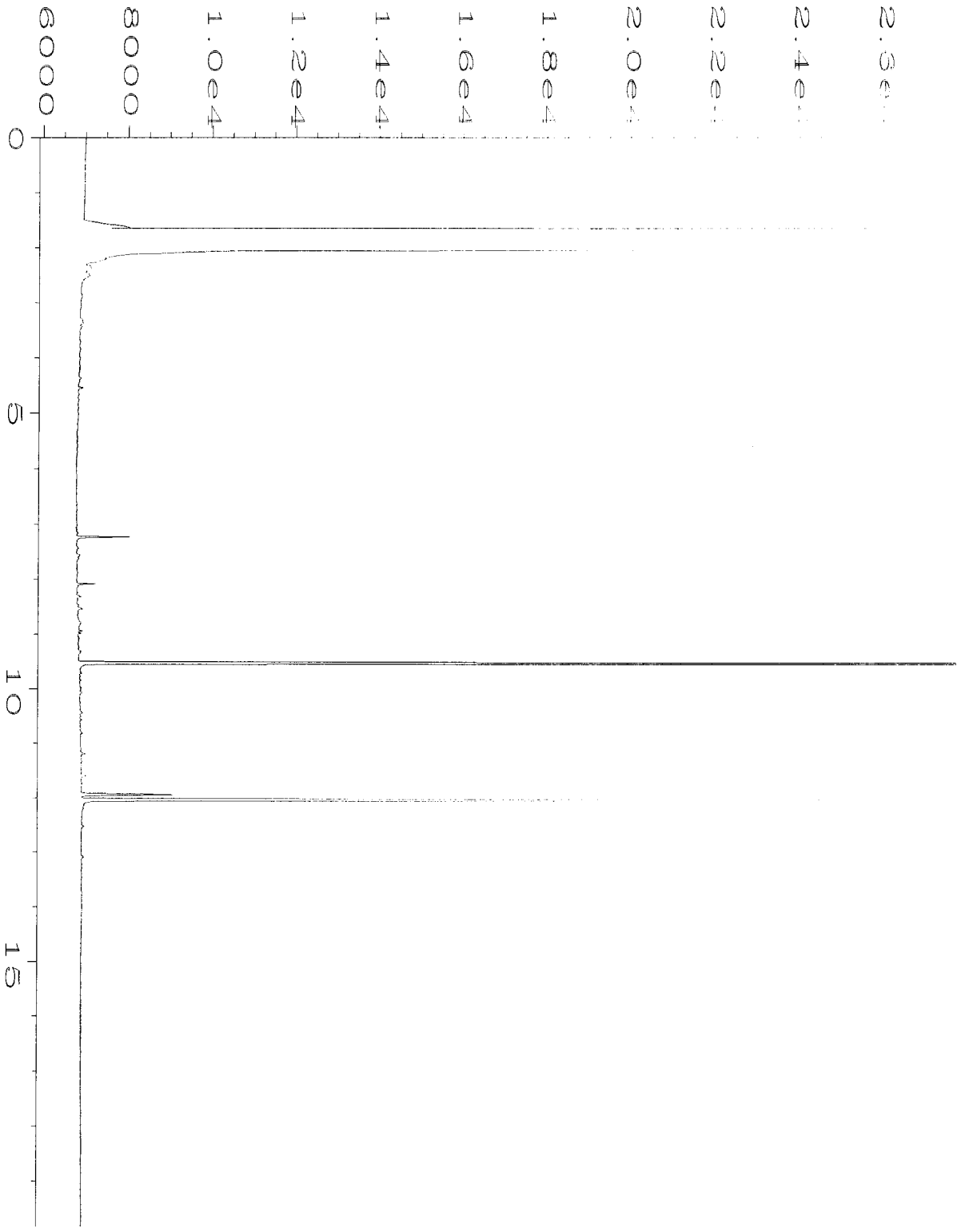
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name : C:\HPCHEM\4\DATA\06-17-11\006F0301.D
Operator : ML
Instrument : GC#4
Sample Name : 106038-10
Run Time Bar Code:
Acquired on : 17 Jun 11 09:23 AM
Report Created on: 20 Jun 11 01:08 PM

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 3
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



Data File Name : C:\HPCHEM\1\DATA\06-17-11\013F0301.D
Operator : ML
Instrument : GC1
Sample Name : 106038-10 sg
Run Time Bar Code:
Acquired on : 17 Jun 11 12:30 PM
Report Created on: 20 Jun 11 01:13 PM

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

106038

SAMPLE CHAIN OF CUSTODY

ME 06/02/11 V4/C04

Page # 1 of 1

Send Report To Chuck Cacek, Ryen Sixby
Company SoundEarth Strategies Inc
Address 2811 Fairview Ave E Ste 2000
City, State, ZIP Seattle, WA 98102
Phone # 206 306 1900 Fax # 206 306 1907

SAMPLERS (signature)

PROJECT NAME/NO. ALSCO Property / 0797-001-01

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
R-MW1-20110602	R-MW1	10.5	01	6/2/11	1230	W	7	X	X		X					(X) - analyze per CC 6/15/11 mg
R-MW2-20110602	R-MW2	13	02		1215			X	X		X					
R-MW3-20110602	R-MW3	14	03		1315			X	X		X					
R-MW5-20110602	R-MW5	23	04		1102			X	X		X					
R-MW6-20110602	R-MW6	19	05		1348			X	X		X					analyze w/ and w/o silica gel cleanup mg 6/16/11 per CC
G-MW2-20110602	G-MW2	13	06		1615			X	X		X					
G-MW3-20110602	G-MW3	31	07		1632			X	X		X					
BB-8-20110602	BB-8	35	08		1445			X	X		X					
BB-8A-20110602	BB-8A	35	09		1565			X	X		X					
MW9-20110602	MW9	18.5	10		1142			(X)	(X)	(X)						~~Hold unpreserved 6/16/11~~ mg
Trip Blank			11								X					Cooler # 1

Samples received at 6 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Andrea Liguori	SoundEarth	6/2/11	1718
Received by:		Charles Cacek	SoundEarth	6/2/11	1718
Relinquished by:		Charles Cacek	SoundEarth	6/2/11	1745
Received by:		HONG NGUYEN	FBI	"	"

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 14, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the amended results from the testing of material submitted on June 2, 2011 from the SOU_0797-001-01_20110602, F&BI 106038 project. The case narrative has been amended to provide further information regarding the nature of the material present in the samples G-MW2-20110602, G-MW3-20110602, BB-8-20110602, and BB-8A-20110602. In addition, the "x" flag has been removed from the NWTPH-Gx analysis of the sample R-MW2-20110602.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Otto Paris, Ryan Bixby
SOU0614R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Charlene Morrow, M.S.
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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 14, 2011

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on June 2, 2011 from the SOU_0797-001-01_20110602, F&BI 106038 project. There are 23 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Otto Paris, Ryan Bixby
SOU0614R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 2, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-01_20110602, F&BI 106038 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106038-01	R-MW1-20110602
106038-02	R-MW2-20110602
106038-03	R-MW3-20110602
106038-04	R-MW5-20110602
106038-05	R-MW6-20110602
106038-06	G-MW2-20110602
106038-07	G-MW3-20110602
106038-08	BB-8-20110602
106038-09	BB-8A-20110602
106038-10	MW9-20110602
106038-11	Trip Blank

For the NWTPH-Gx analysis, the gasoline range material present in the samples G-MW2-20110602, G-MW3-20110602, BB-8-20110602, and BB-8A-20110602 is not indicative of gasoline. The material present in these samples elutes as one or two peaks at approximately 5 and 7.5 minutes. This information in conjunction with the results from the 8260C analysis indicates that the gasoline range material present in these samples is due to chlorinated solvents and not gasoline.

The 8260C calibration standard failed the acceptance criteria for hexachlorobutadiene in several samples. The data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038
Date Extracted: 06/03/11
Date Analyzed: 06/03/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
R-MW1-20110602 106038-01	<100	79
R-MW2-20110602 106038-02	1,700	78
R-MW3-20110602 106038-03	<100	83
R-MW5-20110602 106038-04	<100	87
R-MW6-20110602 106038-05	<100	85
G-MW2-20110602 106038-06 1/100	59,000 x	70
G-MW3-20110602 106038-07 1/100	19,000 x	87
BB-8-20110602 106038-08	130 x	69
BB-8A-20110602 106038-09	380 x	87
Method Blank 01-992 MB	<100	77

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038
Date Extracted: 06/03/11
Date Analyzed: 06/06/11

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
R-MW1-20110602 106038-01	1,000 x	740	103
R-MW2-20110602 106038-02	3,100	290 x	97
R-MW3-20110602 106038-03	240 x	<250	104
R-MW5-20110602 106038-04	<50	<250	102
R-MW6-20110602 106038-05	120 x	<250	105
G-MW2-20110602 106038-06	200	<250	94
G-MW3-20110602 106038-07	210 x	<250	97
BB-8-20110602 106038-08	<50	<250	104
BB-8A-20110602 106038-09	<50	<250	101
Method Blank 01-1044 MB	<50	<250	87

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW1-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-01
Date Analyzed:	06/10/11	Data File:	061010.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	104	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	7.9
Vinyl chloride	0.68	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	1.9	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	2.7	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW2-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-02
Date Analyzed:	06/10/11	Data File:	061011.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	99	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	21
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	34
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	19	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	5.6
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW3-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-03
Date Analyzed:	06/10/11	Data File:	061012.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	99	65	127
4-Bromofluorobenzene	96	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW5-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-04
Date Analyzed:	06/10/11	Data File:	061013.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	102	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW6-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-05
Date Analyzed:	06/10/11	Data File:	061014.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	101	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	2.1	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW2-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/09/11	Lab ID:	106038-06 1/1000
Date Analyzed:	06/09/11	Data File:	060926.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	105	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000 ca	Tetrachloroethene	150,000 ve
Vinyl chloride	<200	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	<1,000	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	<1,000	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000 ca
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW2-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-06 1/10000
Date Analyzed:	06/10/11	Data File:	061009.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	107	65	127
4-Bromofluorobenzene	108	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10,000	1,3-Dichloropropane	<10,000
Chloromethane	<100,000	Tetrachloroethene	150,000
Vinyl chloride	<2,000	Dibromochloromethane	<10,000
Bromomethane	<10,000	1,2-Dibromoethane (EDB)	<10,000
Chloroethane	<10,000	Chlorobenzene	<10,000
Trichlorofluoromethane	<10,000	Ethylbenzene	<10,000
Acetone	<100,000	1,1,1,2-Tetrachloroethane	<10,000
1,1-Dichloroethene	<10,000	m,p-Xylene	<20,000
Methylene chloride	<50,000	o-Xylene	<10,000
Methyl t-butyl ether (MTBE)	<10,000	Styrene	<10,000
trans-1,2-Dichloroethene	<10,000	Isopropylbenzene	<10,000
1,1-Dichloroethane	<10,000	Bromoform	<10,000
2,2-Dichloropropane	<10,000	n-Propylbenzene	<10,000
cis-1,2-Dichloroethene	<10,000	Bromobenzene	<10,000
Chloroform	<10,000	1,3,5-Trimethylbenzene	<10,000
2-Butanone (MEK)	<100,000	1,1,2,2-Tetrachloroethane	<10,000
1,2-Dichloroethane (EDC)	<10,000	1,2,3-Trichloropropane	<10,000
1,1,1-Trichloroethane	<10,000	2-Chlorotoluene	<10,000
1,1-Dichloropropene	<10,000	4-Chlorotoluene	<10,000
Carbon tetrachloride	<10,000	tert-Butylbenzene	<10,000
Benzene	<3,500	1,2,4-Trimethylbenzene	<10,000
Trichloroethene	<10,000	sec-Butylbenzene	<10,000
1,2-Dichloropropane	<10,000	p-Isopropyltoluene	<10,000
Bromodichloromethane	<10,000	1,3-Dichlorobenzene	<10,000
Dibromomethane	<10,000	1,4-Dichlorobenzene	<10,000
4-Methyl-2-pentanone	<100,000	1,2-Dichlorobenzene	<10,000
cis-1,3-Dichloropropene	<10,000	1,2-Dibromo-3-chloropropane	<100,000
Toluene	<10,000	1,2,4-Trichlorobenzene	<10,000
trans-1,3-Dichloropropene	<10,000	Hexachlorobutadiene	<10,000
1,1,2-Trichloroethane	<10,000	Naphthalene	<10,000
2-Hexanone	<100,000	1,2,3-Trichlorobenzene	<10,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW3-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/09/11	Lab ID:	106038-07 1/1000
Date Analyzed:	06/09/11	Data File:	060927.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	100	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000 ca	Tetrachloroethene	33,000
Vinyl chloride	290	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	1,500	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	1,400	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000 ca
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-08
Date Analyzed:	06/11/11	Data File:	061034.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	63	127
Toluene-d8	101	65	127
4-Bromofluorobenzene	100	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	240 ve
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	44	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	59	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/09/11	Lab ID:	106038-08 1/100
Date Analyzed:	06/09/11	Data File:	060923.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	63	127
Toluene-d8	101	65	127
4-Bromofluorobenzene	105	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<100	1,3-Dichloropropane	<100
Chloromethane	<1,000 ca	Tetrachloroethene	170
Vinyl chloride	<20	Dibromochloromethane	<100
Bromomethane	<100	1,2-Dibromoethane (EDB)	<100
Chloroethane	<100	Chlorobenzene	<100
Trichlorofluoromethane	<100	Ethylbenzene	<100
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<100
1,1-Dichloroethene	<100	m,p-Xylene	<200
Methylene chloride	<500	o-Xylene	<100
Methyl t-butyl ether (MTBE)	<100	Styrene	<100
trans-1,2-Dichloroethene	<100	Isopropylbenzene	<100
1,1-Dichloroethane	<100	Bromoform	<100
2,2-Dichloropropane	<100	n-Propylbenzene	<100
cis-1,2-Dichloroethene	<100	Bromobenzene	<100
Chloroform	<100	1,3,5-Trimethylbenzene	<100
2-Butanone (MEK)	<1,000	1,1,2,2-Tetrachloroethane	<100
1,2-Dichloroethane (EDC)	<100	1,2,3-Trichloropropane	<100
1,1,1-Trichloroethane	<100	2-Chlorotoluene	<100
1,1-Dichloropropene	<100	4-Chlorotoluene	<100
Carbon tetrachloride	<100	tert-Butylbenzene	<100
Benzene	<35	1,2,4-Trimethylbenzene	<100
Trichloroethene	<100	sec-Butylbenzene	<100
1,2-Dichloropropane	<100	p-Isopropyltoluene	<100
Bromodichloromethane	<100	1,3-Dichlorobenzene	<100
Dibromomethane	<100	1,4-Dichlorobenzene	<100
4-Methyl-2-pentanone	<1,000	1,2-Dichlorobenzene	<100
cis-1,3-Dichloropropene	<100	1,2-Dibromo-3-chloropropane	<1,000
Toluene	<100	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<100	Hexachlorobutadiene	<100 ca
1,1,2-Trichloroethane	<100	Naphthalene	<100
2-Hexanone	<1,000	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8A-20110602	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-09 1/10
Date Analyzed:	06/10/11	Data File:	061008.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	106	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	710
Vinyl chloride	<2	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	<10	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<100	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<20
Methylene chloride	<50	o-Xylene	<10
Methyl t-butyl ether (MTBE)	<10	Styrene	<10
trans-1,2-Dichloroethene	<10	Isopropylbenzene	<10
1,1-Dichloroethane	<10	Bromoform	<10
2,2-Dichloropropane	<10	n-Propylbenzene	<10
cis-1,2-Dichloroethene	170	Bromobenzene	<10
Chloroform	<10	1,3,5-Trimethylbenzene	<10
2-Butanone (MEK)	<100	1,1,2,2-Tetrachloroethane	<10
1,2-Dichloroethane (EDC)	<10	1,2,3-Trichloropropane	<10
1,1,1-Trichloroethane	<10	2-Chlorotoluene	<10
1,1-Dichloropropene	<10	4-Chlorotoluene	<10
Carbon tetrachloride	<10	tert-Butylbenzene	<10
Benzene	<3.5	1,2,4-Trimethylbenzene	<10
Trichloroethene	170	sec-Butylbenzene	<10
1,2-Dichloropropane	<10	p-Isopropyltoluene	<10
Bromodichloromethane	<10	1,3-Dichlorobenzene	<10
Dibromomethane	<10	1,4-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dichlorobenzene	<10
cis-1,3-Dichloropropene	<10	1,2-Dibromo-3-chloropropane	<100
Toluene	<10	1,2,4-Trichlorobenzene	<10
trans-1,3-Dichloropropene	<10	Hexachlorobutadiene	<10
1,1,2-Trichloroethane	<10	Naphthalene	<10
2-Hexanone	<100	1,2,3-Trichlorobenzene	<10

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Trip Blank	Client:	SoundEarth Strategies
Date Received:	06/02/11	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	106038-11
Date Analyzed:	06/10/11	Data File:	061007.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	63	127
Toluene-d8	100	65	127
4-Bromofluorobenzene	106	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/09/11	Lab ID:	01-1002 mb
Date Analyzed:	06/09/11	Data File:	060912.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	63	127
Toluene-d8	99	65	127
4-Bromofluorobenzene	98	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10 ca	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1 ca
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797-001-01_20110602, F&BI 106038
Date Extracted:	06/10/11	Lab ID:	01-1003 mb
Date Analyzed:	06/10/11	Data File:	061006.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	63	127
Toluene-d8	103	65	127
4-Bromofluorobenzene	106	40	157

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 106020-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	103	69-134

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	91	93	58-134	2

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	109	99	27-138	10
Chloromethane	ug/L (ppb)	50	100	92	49-125	8
Vinyl chloride	ug/L (ppb)	50	105	96	53-131	9
Bromomethane	ug/L (ppb)	50	101	96	62-148	5
Chloroethane	ug/L (ppb)	50	107	103	30-176	4
Trichlorofluoromethane	ug/L (ppb)	50	111	102	65-172	8
Acetone	ug/L (ppb)	250	95	93	32-177	2
1,1-Dichloroethene	ug/L (ppb)	50	103	95	65-157	8
Methylene chloride	ug/L (ppb)	50	92	88	17-177	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	98	54-156	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	94	71-128	4
1,1-Dichloroethane	ug/L (ppb)	50	98	96	74-118	2
2,2-Dichloropropane	ug/L (ppb)	50	112	105	65-150	6
cis-1,2-Dichloroethene	ug/L (ppb)	50	96	91	74-126	5
Chloroform	ug/L (ppb)	50	102	99	76-118	3
2-Butanone (MEK)	ug/L (ppb)	250	96	99	52-152	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	107	106	71-135	1
1,1,1-Trichloroethane	ug/L (ppb)	50	110	104	77-123	6
1,1-Dichloropropene	ug/L (ppb)	50	100	101	75-122	1
Carbon tetrachloride	ug/L (ppb)	50	109	104	73-126	5
Benzene	ug/L (ppb)	50	91	92	77-121	1
Trichloroethene	ug/L (ppb)	50	100	101	74-119	1
1,2-Dichloropropane	ug/L (ppb)	50	92	96	77-121	4
Bromodichloromethane	ug/L (ppb)	50	104	104	77-129	0
Dibromomethane	ug/L (ppb)	50	98	99	79-121	1
4-Methyl-2-pentanone	ug/L (ppb)	250	93	94	65-135	1
cis-1,3-Dichloropropene	ug/L (ppb)	50	97	103	79-129	6
Toluene	ug/L (ppb)	50	89	91	81-113	2
trans-1,3-Dichloropropene	ug/L (ppb)	50	101	102	90-128	1
1,1,2-Trichloroethane	ug/L (ppb)	50	90	94	85-116	4
2-Hexanone	ug/L (ppb)	250	95	97	58-160	2
1,3-Dichloropropane	ug/L (ppb)	50	92	95	88-115	3
Tetrachloroethene	ug/L (ppb)	50	92	94	83-113	2
Dibromochloromethane	ug/L (ppb)	50	100	102	89-128	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	95	96	88-122	1
Chlorobenzene	ug/L (ppb)	50	91	92	84-116	1
Ethylbenzene	ug/L (ppb)	50	94	94	83-116	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	100	97	86-124	3
m,p-Xylene	ug/L (ppb)	100	90	93	84-120	3
o-Xylene	ug/L (ppb)	50	95	94	83-120	1
Styrene	ug/L (ppb)	50	95	96	87-119	1
Isopropylbenzene	ug/L (ppb)	50	98	95	83-120	3
Bromoform	ug/L (ppb)	50	102	103	77-119	1
n-Propylbenzene	ug/L (ppb)	50	90	94	83-118	4
Bromobenzene	ug/L (ppb)	50	89	93	88-117	4
1,3,5-Trimethylbenzene	ug/L (ppb)	50	92	95	85-121	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	87	90	81-120	3
1,2,3-Trichloropropane	ug/L (ppb)	50	89	95	77-123	7
2-Chlorotoluene	ug/L (ppb)	50	91	94	81-116	3
4-Chlorotoluene	ug/L (ppb)	50	91	96	83-117	5
tert-Butylbenzene	ug/L (ppb)	50	91	95	84-118	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	91	94	86-119	3
sec-Butylbenzene	ug/L (ppb)	50	91	92	84-121	1
p-Isopropyltoluene	ug/L (ppb)	50	93	95	85-118	2
1,3-Dichlorobenzene	ug/L (ppb)	50	90	91	85-118	1
1,4-Dichlorobenzene	ug/L (ppb)	50	89	92	85-119	3
1,2-Dichlorobenzene	ug/L (ppb)	50	93	94	81-117	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	106	103	62-136	3
1,2,4-Trichlorobenzene	ug/L (ppb)	50	101	99	75-129	2
Hexachlorobutadiene	ug/L (ppb)	50	89	87	72-138	2
Naphthalene	ug/L (ppb)	50	99	95	66-135	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	102	100	70-133	2

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 106038-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	110	10-185
Chloromethane	ug/L (ppb)	50	<10	99	26-167
Vinyl chloride	ug/L (ppb)	50	<0.2	111	10-185
Bromomethane	ug/L (ppb)	50	<1	111	24-165
Chloroethane	ug/L (ppb)	50	<1	118	10-172
Trichlorofluoromethane	ug/L (ppb)	50	<1	117	30-199
Acetone	ug/L (ppb)	250	<10	102	19-168
1,1-Dichloroethene	ug/L (ppb)	50	<1	115	35-149
Methylene chloride	ug/L (ppb)	50	<5	100	61-138
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	110	49-139
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	105	65-128
1,1-Dichloroethane	ug/L (ppb)	50	<1	107	67-127
2,2-Dichloropropane	ug/L (ppb)	50	<1	106	23-163
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	65-139
Chloroform	ug/L (ppb)	50	<1	109	71-127
2-Butanone (MEK)	ug/L (ppb)	250	<10	101	47-162
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	118	68-132
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	115	63-135
1,1-Dichloropropene	ug/L (ppb)	50	<1	106	65-127
Carbon tetrachloride	ug/L (ppb)	50	<1	115	55-139
Benzene	ug/L (ppb)	50	<0.35	97	62-144
Trichloroethene	ug/L (ppb)	50	<1	107	66-121
1,2-Dichloropropane	ug/L (ppb)	50	<1	97	73-130
Bromodichloromethane	ug/L (ppb)	50	<1	111	65-135
Dibromomethane	ug/L (ppb)	50	<1	105	65-135
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	98	56-143
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	55-146
Toluene	ug/L (ppb)	50	<1	94	68-131
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	104	63-147
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	96	63-143
2-Hexanone	ug/L (ppb)	250	<10	103	51-149
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	72-126
Tetrachloroethene	ug/L (ppb)	50	<1	96	64-132
Dibromochloromethane	ug/L (ppb)	50	<1	107	65-135
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	100	77-127
Chlorobenzene	ug/L (ppb)	50	<1	96	72-118
Ethylbenzene	ug/L (ppb)	50	<1	99	51-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	104	72-129
m,p-Xylene	ug/L (ppb)	100	<2	96	72-137
o-Xylene	ug/L (ppb)	50	<1	99	67-133
Styrene	ug/L (ppb)	50	<1	100	73-126
Isopropylbenzene	ug/L (ppb)	50	<1	102	65-135
Bromoform	ug/L (ppb)	50	<1	108	60-136
n-Propylbenzene	ug/L (ppb)	50	<1	92	66-133
Bromobenzene	ug/L (ppb)	50	<1	95	70-129
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	95	72-130
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	92	65-137
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	97	66-135
2-Chlorotoluene	ug/L (ppb)	50	<1	96	62-131
4-Chlorotoluene	ug/L (ppb)	50	<1	97	62-132
tert-Butylbenzene	ug/L (ppb)	50	<1	96	64-135
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	96	69-139
sec-Butylbenzene	ug/L (ppb)	50	<1	94	64-134
p-Isopropyltoluene	ug/L (ppb)	50	<1	94	69-134
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	93	65-126
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	93	65-121
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	96	64-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	113	54-133
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	102	63-141
Hexachlorobutadiene	ug/L (ppb)	50	<1	89	53-140
Naphthalene	ug/L (ppb)	50	<1	101	40-166
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	106	55-148

Date of Report: 06/14/11
Date Received: 06/02/11
Project: SOU_0797-001-01_20110602, F&BI 106038

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	109	113	27-138	4
Chloromethane	ug/L (ppb)	50	98	97	49-125	1
Vinyl chloride	ug/L (ppb)	50	105	113	53-131	7
Bromomethane	ug/L (ppb)	50	108	113	62-148	5
Chloroethane	ug/L (ppb)	50	113	121	30-176	7
Trichlorofluoromethane	ug/L (ppb)	50	120	123	65-172	2
Acetone	ug/L (ppb)	250	106	106	32-177	0
1,1-Dichloroethene	ug/L (ppb)	50	109	115	65-157	5
Methylene chloride	ug/L (ppb)	50	96	104	17-177	8
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	108	111	54-156	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	103	107	71-128	4
1,1-Dichloroethane	ug/L (ppb)	50	105	109	74-118	4
2,2-Dichloropropane	ug/L (ppb)	50	112	122	65-150	9
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	105	74-126	8
Chloroform	ug/L (ppb)	50	108	112	76-118	4
2-Butanone (MEK)	ug/L (ppb)	250	107	105	52-152	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	121	121	71-135	0
1,1,1-Trichloroethane	ug/L (ppb)	50	116	119	77-123	3
1,1-Dichloropropene	ug/L (ppb)	50	110	111	75-122	1
Carbon tetrachloride	ug/L (ppb)	50	120	123	73-126	2
Benzene	ug/L (ppb)	50	99	99	77-121	0
Trichloroethene	ug/L (ppb)	50	111	111	74-119	0
1,2-Dichloropropane	ug/L (ppb)	50	102	102	77-121	0
Bromodichloromethane	ug/L (ppb)	50	119	117	77-129	2
Dibromomethane	ug/L (ppb)	50	109	108	79-121	1
4-Methyl-2-pentanone	ug/L (ppb)	250	102	101	65-135	1
cis-1,3-Dichloropropene	ug/L (ppb)	50	112	111	79-129	1
Toluene	ug/L (ppb)	50	101	97	81-113	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	115	112	90-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	102	102	85-116	0
2-Hexanone	ug/L (ppb)	250	109	109	58-160	0
1,3-Dichloropropane	ug/L (ppb)	50	104	102	88-115	2
Tetrachloroethene	ug/L (ppb)	50	102	100	83-113	2
Dibromochloromethane	ug/L (ppb)	50	115	113	89-128	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	104	88-122	3
Chlorobenzene	ug/L (ppb)	50	99	100	84-116	1
Ethylbenzene	ug/L (ppb)	50	104	103	83-116	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	108	111	86-124	3
m,p-Xylene	ug/L (ppb)	100	101	100	84-120	1
o-Xylene	ug/L (ppb)	50	101	103	83-120	2
Styrene	ug/L (ppb)	50	104	104	87-119	0
Isopropylbenzene	ug/L (ppb)	50	105	107	83-120	2
Bromoform	ug/L (ppb)	50	118	115	77-119	3
n-Propylbenzene	ug/L (ppb)	50	101	102	83-118	1
Bromobenzene	ug/L (ppb)	50	100	102	88-117	2
1,3,5-Trimethylbenzene	ug/L (ppb)	50	102	105	85-121	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	97	98	81-120	1
1,2,3-Trichloropropane	ug/L (ppb)	50	103	102	77-123	1
2-Chlorotoluene	ug/L (ppb)	50	102	102	81-116	0
4-Chlorotoluene	ug/L (ppb)	50	103	103	83-117	0
tert-Butylbenzene	ug/L (ppb)	50	102	104	84-118	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	86-119	2
sec-Butylbenzene	ug/L (ppb)	50	98	101	84-121	3
p-Isopropyltoluene	ug/L (ppb)	50	102	104	85-118	2
1,3-Dichlorobenzene	ug/L (ppb)	50	100	101	85-118	1
1,4-Dichlorobenzene	ug/L (ppb)	50	100	98	85-119	2
1,2-Dichlorobenzene	ug/L (ppb)	50	99	102	81-117	3
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	117	120	62-136	3
1,2,4-Trichlorobenzene	ug/L (ppb)	50	103	111	75-129	7
Hexachlorobutadiene	ug/L (ppb)	50	95	101	72-138	6
Naphthalene	ug/L (ppb)	50	99	107	66-135	8
1,2,3-Trichlorobenzene	ug/L (ppb)	50	104	112	70-133	7

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

106038

SAMPLE CHAIN OF CUSTODY

ME 06/02/11 V4/C04

Page # 1 of 1

Send Report To Chuck Cacek, Ryen Sixby
Company SoundEarth Strategies Inc
Address 2811 Fairview Ave E Ste 2000
City, State, ZIP Seattle, WA 98102
Phone # 206 306 1900 Fax # 206 306 1907

SAMPLERS (signature)

PROJECT NAME/NO. ALSCO Property / 0797-001-01

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
R-MW1-20110602	R-MW1	10.5	01	6/2/11	1230	W	7	X	X		X					(X) - analyze per CC 6/15/11 mg
R-MW2-20110602	R-MW2	13	02		1215			X	X		X					
R-MW3-20110602	R-MW3	14	03		1315			X	X		X					
R-MW5-20110602	R-MW5	23	04		1102			X	X		X					
R-MW6-20110602	R-MW6	19	05		1348			X	X		X					analyze w/ and w/o silica gel cleanup mg 6/16/11 per CC
G-MW2-20110602	G-MW2	13	06		1615			X	X		X					
G-MW3-20110602	G-MW3	31	07		1632			X	X		X					
BB-8-20110602	BB-8	35	08		1445			X	X		X					
BB-8A-20110602	BB-8A	35	09		1565			X	X		X					
MW9-20110602	MW9	18.5	10		1142			(X)	(X)	(X)						~~Hold unpreserved 6/16/11~~ mg
Trip Blank			11								X					Cooler # 1

Samples received at 6 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Andrea Liguori	SoundEarth	6/2/11	1718
Received by:		Charles Cacek	SoundEarth	6/2/11	1718
Relinquished by:		Charles Cacek	SoundEarth	6/2/11	1745
Received by:		HONG NGUYEN	FBI	"	"

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 12, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 11, 2012 from the SOU_0797_20120711, F&BI 207132 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0712R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 11, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120711, F&BI 207132 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207132-01	B101-80-20120711
207132-02	B101-80-20120711-DUP

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-80-20120711	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207132
Date Extracted:	07/11/12	Lab ID:	207132-01
Date Analyzed:	07/11/12	Data File:	071114.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	2.9
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	32

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-80-20120711-DUP	Client:	SoundEarth Strategies
Date Received:	07/11/12	Project:	SOU_0797_20120711, F&BI 207132
Date Extracted:	07/11/12	Lab ID:	207132-02
Date Analyzed:	07/11/12	Data File:	071113.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.1
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	25
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	6.1
Tetrachloroethene	150

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120711, F&BI 207132
Date Extracted:	07/11/12	Lab ID:	02-1199 mb
Date Analyzed:	07/11/12	Data File:	071109.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/12/12
Date Received: 07/11/12
Project: SOU_0797_20120711, F&BI 207132

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	98	100	50-154	2
Chloroethane	ug/L (ppb)	50	83	90	58-146	8
1,1-Dichloroethene	ug/L (ppb)	50	88	89	67-136	1
Methylene chloride	ug/L (ppb)	50	85	86	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	100	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	99	98	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	104	80-123	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	93	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	104	102	83-130	2
Trichloroethene	ug/L (ppb)	50	91	90	80-120	1
Tetrachloroethene	ug/L (ppb)	50	104	106	76-121	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207132 ME 07-11-12 1 of VI

Send Report To Chuck Cacek
Company SoundEarth Strategies
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle, WA 98102
Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)
PROJECT NAME/NO. 700 Dexter/0797
PO #
REMARKS
GEMS Y / N

TURNAROUND TIME
☐ Standard (2 Weeks)
☑ RUSH 24hr
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B101-80-20120711	B101	80	01A-D	7-11-12	1300	water	4							X		[redacted]
DUP-B101-80-20120711	DUP B101	80	02A-C	7-11-12	1300	water	3							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hurley	SES	7-11-12	1375
Received by:	Elizabeth Webber-Bruya	FSB1	7/11/12	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 12, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 12, 2012 from the SOU_0797_20120712, F&BI 207151 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: John Funderburk, Brian Dixon
SOU0712R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120712, F&BI 207151 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207151-01	B101-100-20120712

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-100-20120712	Client:	SoundEarth Strategies
Date Received:	07/12/12	Project:	SOU_0797_20120712, F&BI 207151
Date Extracted:	07/12/12	Lab ID:	207151-01
Date Analyzed:	07/12/12	Data File:	071209.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	3.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120712, F&BI 207151
Date Extracted:	07/12/12	Lab ID:	02-1218 mb
Date Analyzed:	07/12/12	Data File:	071208.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/12/12
Date Received: 07/12/12
Project: SOU_0797_20120712, F&BI 207151

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207145-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	99	50-150
Chloroethane	ug/L (ppb)	50	<1	105	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	100	50-150
Methylene chloride	ug/L (ppb)	50	<5	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	98	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	102	50-150
Trichloroethene	ug/L (ppb)	50	<1	93	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	99	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	97	101	70-130	4
Chloroethane	ug/L (ppb)	50	102	106	70-130	4
1,1-Dichloroethene	ug/L (ppb)	50	97	101	70-130	4
Methylene chloride	ug/L (ppb)	50	95	101	70-130	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	96	100	70-130	4
1,1-Dichloroethane	ug/L (ppb)	50	97	101	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	102	70-130	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	99	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	50	99	104	70-130	5
Trichloroethene	ug/L (ppb)	50	90	95	70-130	5
Tetrachloroethene	ug/L (ppb)	50	96	99	70-130	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207151

ME 07-12-12

Page # 1 of 1 V1

Send Report To Chuck Caeck

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 24-hour/ASAP

Rush charges authorized by: CCC

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B101-100-20120712	B101	100	01 A-D	7/12/12	0930	H20	4							X		

7/12/12

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendel	SES	7/12/12	1010
Received by:		Nhan Pham	FeBT	7/12/12	1010
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 12, 2012 from the SOU_0797_20120712, F&BI 207155 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0717R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120712, F&BI 207155 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207155-01	B101-120-20120712

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-120-20120712	Client:	SoundEarth Strategies
Date Received:	07/12/12	Project:	SOU_0797_20120712, F&BI 207155
Date Extracted:	07/12/12	Lab ID:	207155-01
Date Analyzed:	07/12/12	Data File:	071218.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120712, F&BI 207155
Date Extracted:	07/12/12	Lab ID:	02-1218 mb
Date Analyzed:	07/12/12	Data File:	071208.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/17/12
Date Received: 07/12/12
Project: SOU_0797_20120712, F&BI 207155

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207145-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	99	50-150
Chloroethane	ug/L (ppb)	50	<1	105	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	100	50-150
Methylene chloride	ug/L (ppb)	50	<5	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	98	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	102	50-150
Trichloroethene	ug/L (ppb)	50	<1	93	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	99	50-150

Date of Report: 07/17/12
Date Received: 07/12/12
Project: SOU_0797_20120712, F&BI 207155

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	97	101	70-130	4
Chloroethane	ug/L (ppb)	50	102	106	70-130	4
1,1-Dichloroethene	ug/L (ppb)	50	97	101	70-130	4
Methylene chloride	ug/L (ppb)	50	95	101	70-130	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	96	100	70-130	4
1,1-Dichloroethane	ug/L (ppb)	50	97	101	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	102	70-130	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	99	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	50	99	104	70-130	5
Trichloroethene	ug/L (ppb)	50	90	95	70-130	5
Tetrachloroethene	ug/L (ppb)	50	96	99	70-130	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207155

SAMPLE CHAIN OF CUSTODY

ME 07-12-12

Page # 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS Call Dave Mendel 719-510-8595 w/ rush results

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
B101-120-20120712	B101	120	01A-D	7-12-12	1440	water	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SEI	7/12/12	1500
Received by:	VISIT	FBI	7/12/12	15:00
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 24 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 13, 2012 from the SOU_0797_20120713, F&BI 207165 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
SOU0717R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 13, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120713, F&BI 207165 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207165-01	B101-139-20120712

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B101-139-20120712	Client:	SoundEarth Strategies
Date Received:	07/13/12	Project:	SOU_0797_20120713, F&BI 207165
Date Extracted:	07/13/12	Lab ID:	207165-01
Date Analyzed:	07/13/12	Data File:	071308.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120713, F&BI 207165
Date Extracted:	07/13/12	Lab ID:	02-1219 mb
Date Analyzed:	07/13/12	Data File:	071307.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/17/12
Date Received: 07/13/12
Project: SOU_0797_20120713, F&BI 207165

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207165-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	116	50-150
Chloroethane	ug/L (ppb)	50	<1	120	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	112	50-150
Methylene chloride	ug/L (ppb)	50	<5	113	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	111	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	112	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	115	50-150
Trichloroethene	ug/L (ppb)	50	<1	103	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	109	50-150

Date of Report: 07/17/12
Date Received: 07/13/12
Project: SOU_0797_20120713, F&BI 207165

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	104	102	70-130	2
Chloroethane	ug/L (ppb)	50	106	107	70-130	1
1,1-Dichloroethene	ug/L (ppb)	50	100	100	70-130	0
Methylene chloride	ug/L (ppb)	50	97	96	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	98	70-130	1
1,1-Dichloroethane	ug/L (ppb)	50	98	97	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	99	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	100	98	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	50	102	101	70-130	1
Trichloroethene	ug/L (ppb)	50	94	94	70-130	0
Tetrachloroethene	ug/L (ppb)	50	98	99	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207165

ME 07-13-12

Page # 1 of 1 V1

Send Report To Chuck Creek

Company SES

Address 2811 Elliott Ave Ste 2200

City, State, ZIP Seattle WA 98121

Phone # 206-326-1400 Fax # 206 326-1407

SAMPLERS (signature)

PROJECT NAME/NO. 720 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
B101-13-20120712	B101	13	01A-D	7-13-12	0830	wtr	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hinsley	SES	7-13-12	0843
Received by:		Nhan Phan	FCBT	7-13-12	0843
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 26, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 18, 2012 from the SOU_0797_20120718, F&BI 207236 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 18, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120718, F&BI 207236 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207236-01	B102-30-20120717
207236-02	B102-30-20120717-F
207236-03	B102-50-20120717
207236-04	B102-50-20120717-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-30-20120717	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207236
Date Extracted:	07/19/12	Lab ID:	207236-01
Date Analyzed:	07/19/12	Data File:	071909.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.84
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	9.0
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	2.5
Tetrachloroethene	5.0

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-30-20120717-F	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207236
Date Extracted:	07/19/12	Lab ID:	207236-02
Date Analyzed:	07/19/12	Data File:	071908.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-50-20120717	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207236
Date Extracted:	07/19/12	Lab ID:	207236-03
Date Analyzed:	07/19/12	Data File:	071910.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.20
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	2.4
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-50-20120717-F	Client:	SoundEarth Strategies
Date Received:	07/18/12	Project:	SOU_0797_20120718, F&BI 207236
Date Extracted:	07/19/12	Lab ID:	207236-04
Date Analyzed:	07/19/12	Data File:	071911.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.2
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120718, F&BI 207236
Date Extracted:	07/19/12	Lab ID:	02-1262 mb
Date Analyzed:	07/19/12	Data File:	071907.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/26/12
Date Received: 07/18/12
Project: SOU_0797_20120718, F&BI 207236

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207236-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	96	36-166
Chloroethane	ug/L (ppb)	50	<1	88	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	87	60-136
Methylene chloride	ug/L (ppb)	50	<5	90	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	107	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	94	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	89	60-146
Trichloroethene	ug/L (ppb)	50	<1	89	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	103	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	90	87	50-154	3
Chloroethane	ug/L (ppb)	50	84	83	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	82	82	67-136	0
Methylene chloride	ug/L (ppb)	50	86	81	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	97	96	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	94	92	79-121	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	101	80-123	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	87	86	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	84	83	83-130	1
Trichloroethene	ug/L (ppb)	50	87	86	80-120	1
Tetrachloroethene	ug/L (ppb)	50	104	104	76-121	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207236 ME 07/18/12

Page # 1 of 1 V2

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOCs		Notes
B102-30-20120717	B102	30	01A-D	7/17/12	1100	H2O	4							X		
B102-30-20120717-F		30	02		1105	H2O	4							X		
B102-50-20120717		50	03		1330	H2O	4							X		
B102-50-20120717-F		50	04		1335	H2O	4							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Thomas Ryskamp	SES	7/18/12	1132
Received by:		S. Osborn	F&B, Inc.	7/18/12	11:34
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 26, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 20, 2012 from the SOU_0797_20120720, F&BI 207280 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 20, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120720, F&BI 207280 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207280-01	B102-90-20120719
207280-02	B102-90-20120719-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-90-20120719	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207280
Date Extracted:	07/20/12	Lab ID:	207280-01
Date Analyzed:	07/20/12	Data File:	072034.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B102-90-20120719-F	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207280
Date Extracted:	07/20/12	Lab ID:	207280-02
Date Analyzed:	07/20/12	Data File:	072035.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120720, F&BI 207280
Date Extracted:	07/20/12	Lab ID:	02-1265 mb
Date Analyzed:	07/20/12	Data File:	072008.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/26/12
Date Received: 07/20/12
Project: SOU_0797_20120720, F&BI 207280

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207269-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	50-150
Chloroethane	ug/L (ppb)	50	<1	100	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	97	50-150
Methylene chloride	ug/L (ppb)	50	<5	87	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	99	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	100	50-150
Trichloroethene	ug/L (ppb)	50	<1	96	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	93	97	70-130	4
Chloroethane	ug/L (ppb)	50	92	93	70-130	1
1,1-Dichloroethene	ug/L (ppb)	50	90	91	70-130	1
Methylene chloride	ug/L (ppb)	50	80	83	70-130	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	91	70-130	0
1,1-Dichloroethane	ug/L (ppb)	50	93	94	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	94	70-130	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	90	93	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	50	94	96	70-130	2
Trichloroethene	ug/L (ppb)	50	89	91	70-130	2
Tetrachloroethene	ug/L (ppb)	50	91	88	70-130	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207280

SAMPLE CHAIN OF CUSTODY

ME 07/20/12 Page # 1 of 1 V2

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cu, Cr's		Notes
B102-90-20120719	B102	90	01AD	7-19-12	1100	water	4							X		
B102-90-20120719-F	B102	90	01AD	7-19-12	1100	water	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hardbarger	SES	7-20-12	1150
Received by:	Monroe Reisnauer	PE	7/20	12:48
Relinquished by:				
Received by:	Nhan Phan	FeB-I	7/20/12	1350

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 24, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 20, 2012 from the SOU_0797_20120720, F&BI 207289 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0724R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 20, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120720, F&BI 207289 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207289-01	MW101-20120720

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW101-20120720	Client:	SoundEarth Strategies
Date Received:	07/20/12	Project:	SOU_0797_20120720, F&BI 207289
Date Extracted:	07/20/12	Lab ID:	207289-01
Date Analyzed:	07/21/12	Data File:	072038.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120720, F&BI 207289
Date Extracted:	07/20/12	Lab ID:	02-1265 mb
Date Analyzed:	07/20/12	Data File:	072008.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/24/12
Date Received: 07/20/12
Project: SOU_0797_20120720, F&BI 207289

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207269-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	50-150
Chloroethane	ug/L (ppb)	50	<1	100	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	97	50-150
Methylene chloride	ug/L (ppb)	50	<5	87	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	99	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	100	50-150
Trichloroethene	ug/L (ppb)	50	<1	96	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	93	97	70-130	4
Chloroethane	ug/L (ppb)	50	92	93	70-130	1
1,1-Dichloroethene	ug/L (ppb)	50	90	91	70-130	1
Methylene chloride	ug/L (ppb)	50	80	83	70-130	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	91	70-130	0
1,1-Dichloroethane	ug/L (ppb)	50	93	94	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	94	70-130	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	90	93	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	50	94	96	70-130	2
Trichloroethene	ug/L (ppb)	50	89	91	70-130	2
Tetrachloroethene	ug/L (ppb)	50	91	88	70-130	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207289 ME 07/20/12 Page # 1 of 1

Send Report To Chuck Cacek
Company SoundEarth Strategics
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle, WA 98102
Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter /0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 48 hrs
- Rush charges authorized by: CCC

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CUOCs		Notes
MW101-20120720	MW101	11.0	01A-D	7/20/12	1245	H20	4							X		

by 7/20/12

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	David Mendel	SES	7/20/12	1800
Seattle, WA 98119-2029	Received by:	Thao Thai	F&BI	7/20/12	1500
Ph. (206) 285-8282	Relinquished by:				
Fax (206) 283-5044	Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 9 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 31, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 26, 2012 from the SOU_0797_20120726, F&BI 207354 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0731R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120726, F&BI 207354 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207354-01	B103-25-20120725
207354-02	B103-25-20120725-F
207354-03	B103-40-20120725
207354-04	B103-40-20120725-F

The 8260C vinyl chloride concentrations were flagged due to hydrochloric acid preservation per EPA SW-846 table 4-1 in the dilution of sample B103-40-20120725-F. The full strength analysis of the sample was analyzed from an unpreserved container and the results are not qualified.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-25-20120725	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/26/12	Lab ID:	207354-01
Date Analyzed:	07/26/12	Data File:	072625.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-25-20120725-F	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/26/12	Lab ID:	207354-02
Date Analyzed:	07/26/12	Data File:	072624.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-40-20120725	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/26/12	Lab ID:	207354-03
Date Analyzed:	07/26/12	Data File:	072626.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	42
Chloroethane	<1
1,1-Dichloroethene	2.6
Methylene chloride	<5
trans-1,2-Dichloroethene	2.4
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	570 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1,400 ve
Tetrachloroethene	3,200 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-40-20120725	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/27/12	Lab ID:	207354-03 1/100
Date Analyzed:	07/27/12	Data File:	072713.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	28
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	400
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	860
Tetrachloroethene	1,800

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-40-20120725-F	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/26/12	Lab ID:	207354-04
Date Analyzed:	07/26/12	Data File:	072627.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	14
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	140
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	340 ve
Tetrachloroethene	890 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-40-20120725-F	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/27/12	Lab ID:	207354-04 1/10
Date Analyzed:	07/27/12	Data File:	072710.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	22 pr
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	160
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	350
Tetrachloroethene	840

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120726, F&BI 207354
Date Extracted:	07/26/12	Lab ID:	02-1273 mb
Date Analyzed:	07/26/12	Data File:	072623.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/31/12
Date Received: 07/26/12
Project: SOU_0797_20120726, F&BI 207354

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207354-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	50-150
Chloroethane	ug/L (ppb)	50	<1	91	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	94	50-150
Methylene chloride	ug/L (ppb)	50	<5	91	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	94	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	98	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	99	50-150
Trichloroethene	ug/L (ppb)	50	<1	94	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	95	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	106	99	70-130	7
Chloroethane	ug/L (ppb)	50	93	90	70-130	3
1,1-Dichloroethene	ug/L (ppb)	50	97	95	70-130	2
Methylene chloride	ug/L (ppb)	50	94	95	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	95	70-130	3
1,1-Dichloroethane	ug/L (ppb)	50	101	100	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	100	70-130	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	93	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	50	103	100	70-130	3
Trichloroethene	ug/L (ppb)	50	97	94	70-130	3
Tetrachloroethene	ug/L (ppb)	50	97	96	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

207354 ME 07-26-12 V2

Page # 1 of 1

Send Report To Chuck Carlock

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter/0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks) per co 7/26/12 ms
- ☐ RUSH Rush
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	CVOCs		Notes
B103-25-20120725	B103	25	01A-D	7/25/12	1300	H2O	4							X		
B103-25-20120725-F	B103	25	02	7/25/12	1300	H2O	4							X		
B103-40-20120725	B103	40	03	7-25-12	1430	H2O	4							X		
B103-40-20120725-F	B103	40	04	7-25-12	1430	H2O	4							X		

WC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Will Camarda	SES	7/26/12	1032
Received by:	DAVID	F+BE	11	11
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

July 31, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 26, 2012 from the SOU_0797_20120726, F&BI 207388 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0731R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120726, F&BI 207388 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207388-01	B103-80-20120726
207388-02	B103-80-20120726-F

The full concentration tetrachloroethene analysis of sample B103-80-20120726-F showed the presence of carryover from a previously analyzed sample. The data were flagged accordingly and the sample was reanalyzed.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-80-20120726	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207388
Date Extracted:	07/26/12	Lab ID:	207388-01
Date Analyzed:	07/26/12	Data File:	072628.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.4
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	100
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	62
Tetrachloroethene	430 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-80-20120726	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207388
Date Extracted:	07/27/12	Lab ID:	207388-01 1/10
Date Analyzed:	07/27/12	Data File:	072711.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.9
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	94
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	53
Tetrachloroethene	320

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-80-20120726-F	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207388
Date Extracted:	07/26/12	Lab ID:	207388-02
Date Analyzed:	07/26/12	Data File:	072629.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.3
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	85
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	50
Tetrachloroethene	320 ve c

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B103-80-20120726-F	Client:	SoundEarth Strategies
Date Received:	07/26/12	Project:	SOU_0797_20120726, F&BI 207388
Date Extracted:	07/27/12	Lab ID:	207388-02 1/10
Date Analyzed:	07/27/12	Data File:	072712.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.9
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	85
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	43
Tetrachloroethene	170

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120726, F&BI 207388
Date Extracted:	07/26/12	Lab ID:	02-1273 mb
Date Analyzed:	07/26/12	Data File:	072623.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 07/31/12
Date Received: 07/26/12
Project: SOU_0797_20120726, F&BI 207388

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207354-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	50-150
Chloroethane	ug/L (ppb)	50	<1	91	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	94	50-150
Methylene chloride	ug/L (ppb)	50	<5	91	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	94	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	98	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	99	50-150
Trichloroethene	ug/L (ppb)	50	<1	94	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	95	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	106	99	70-130	7
Chloroethane	ug/L (ppb)	50	93	90	70-130	3
1,1-Dichloroethene	ug/L (ppb)	50	97	95	70-130	2
Methylene chloride	ug/L (ppb)	50	94	95	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	95	70-130	3
1,1-Dichloroethane	ug/L (ppb)	50	101	100	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	100	70-130	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	93	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	50	103	100	70-130	3
Trichloroethene	ug/L (ppb)	50	97	94	70-130	3
Tetrachloroethene	ug/L (ppb)	50	97	96	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207388

SAMPLE CHAIN OF CUSTODY

ME 07-26-12

Page # 1 of 1 VI

Send Report To Chuck Cacek

Company SoundEarth Strategics

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (Signature)

PROJECT NAME/NO. 700 Dexter / 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH 5 bus. days / 24 hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
B103-80-20120726	B103	80	01A-D	7-26-12	1400	GW	4							X		
B103-80-20120726-F	1	1	02T	1	1400	GW	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendel	SES	7/26/12	1500
Received by:		Charles Cacek	SES	7/26/12	1500
Relinquished by:					
Received by:		D O W	F+BD	11	4

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 20 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 1, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on July 31, 2012 from the SOU_0797_20120731, F&BI 207437 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0801R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 31, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120731, F&BI 207437 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
207437-01	MW103-20120731

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for chloroethane. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW103-20120731	Client:	SoundEarth Strategies
Date Received:	07/31/12	Project:	SOU_0797_20120731, F&BI 207437
Date Extracted:	07/31/12	Lab ID:	207437-01 1/10
Date Analyzed:	07/31/12	Data File:	073105.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	79
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	150
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	25
Tetrachloroethene	12

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120731, F&BI 207437
Date Extracted:	07/31/12	Lab ID:	02-1324 mb
Date Analyzed:	07/31/12	Data File:	073104.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/01/12
Date Received: 07/31/12
Project: SOU_0797_20120731, F&BI 207437

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	94	100	50-154	6
Chloroethane	ug/L (ppb)	50	90	138	58-146	42 vo
1,1-Dichloroethene	ug/L (ppb)	50	96	100	67-136	4
Methylene chloride	ug/L (ppb)	50	89	95	39-148	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	99	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	97	99	79-121	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	99	102	80-123	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	100	101	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	105	108	83-130	3
Trichloroethene	ug/L (ppb)	50	90	94	80-120	4
Tetrachloroethene	ug/L (ppb)	50	103	106	76-121	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

207437

SAMPLE CHAIN OF CUSTODY

ME 07/31/12

Page # 1 of 1 V1

Send Report To Chuck Cecil

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOC's		Notes
MW103-20120731	MW103	~~10~~ 10.5	01 A-D	7-31-12	0810	water	4							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hardager	SES	7-31-12	0835
Received by:		Nhan Phan	FEBI	7-31-12	0835
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 1, 2012 from the SOU_0797_20120801, F&BI 208012 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 1, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120801, F&BI 208012 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208012-01	B104-60-20120731
208012-02	B104-60-20120731-F
208012-03	B104-80-20120731
208012-04	B104-80-20120731-F

Methylene chloride was detected in sample

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-60-20120731	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208012
Date Extracted:	08/01/12	Lab ID:	208012-01
Date Analyzed:	08/01/12	Data File:	080116.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	0.77
Toluene	3.4
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Vinyl chloride	17
Chloroethane	<1
1,1-Dichloroethene	1.7
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	370 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	150
Tetrachloroethene	730 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-60-20120731	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208012
Date Extracted:	08/01/12	Lab ID:	208012-01 1/10
Date Analyzed:	08/01/12	Data File:	080124.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	<3.5
Toluene	<10
Ethylbenzene	<10
m,p-Xylene	<20
o-Xylene	<10
Vinyl chloride	24 pr
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	480
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	190
Tetrachloroethene	900

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-80-20120731	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208012
Date Extracted:	08/01/12	Lab ID:	208012-03
Date Analyzed:	08/01/12	Data File:	080117.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	1.0
Toluene	2.6
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Vinyl chloride	6.1
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	6.3 lc
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	170 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	45
Tetrachloroethene	220 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-80-20120731	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208012
Date Extracted:	08/01/12	Lab ID:	208012-03 1/10
Date Analyzed:	08/01/12	Data File:	080123.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	<3.5
Toluene	<10
Ethylbenzene	<10
m,p-Xylene	<20
o-Xylene	<10
Vinyl chloride	6.3
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	180
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	52
Tetrachloroethene	220

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120801, F&BI 208012
Date Extracted:	08/01/12	Lab ID:	02-1327 mb
Date Analyzed:	08/01/12	Data File:	080107.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/07/12
Date Received: 08/01/12
Project: SOU_0797_20120801, F&BI 208012

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208006-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	105	36-166
Chloroethane	ug/L (ppb)	50	<1	178 vo	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	99	60-136
Methylene chloride	ug/L (ppb)	50	<5	90	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	104	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	113	60-146
Benzene	ug/L (ppb)	50	<0.35	100	76-125
Trichloroethene	ug/L (ppb)	50	<1	91	66-135
Toluene	ug/L (ppb)	50	<1	101	76-122
Tetrachloroethene	ug/L (ppb)	50	<1	102	73-129
Ethylbenzene	ug/L (ppb)	50	<1	103	69-135
m,p-Xylene	ug/L (ppb)	100	<2	105	69-135
o-Xylene	ug/L (ppb)	50	<1	104	68-137

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	102	50-154	1
Chloroethane	ug/L (ppb)	50	88	101	58-146	14
1,1-Dichloroethene	ug/L (ppb)	50	100	100	67-136	0
Methylene chloride	ug/L (ppb)	50	95	95	39-148	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	100	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	102	102	79-121	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	105	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	104	104	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	113	110	83-130	3
Benzene	ug/L (ppb)	50	102	102	69-134	0
Trichloroethene	ug/L (ppb)	50	94	94	80-120	0
Toluene	ug/L (ppb)	50	105	105	72-122	0
Tetrachloroethene	ug/L (ppb)	50	109	110	76-121	1
Ethylbenzene	ug/L (ppb)	50	106	106	77-124	0
m,p-Xylene	ug/L (ppb)	100	107	107	83-125	0
o-Xylene	ug/L (ppb)	50	108	109	86-121	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208012

SAMPLE CHAIN OF CUSTODY

ME 08/01/12 v2

Send Report To Chuck Cacek

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH 24 hr.

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOC's		Notes
B104-60-20120734	B104	60	01A-D	7-31-12	1005	Water	4							X		
B104-60-20120731-F	"	60	02	"	1005	"	4									Hold
B104-80-20120731	"	80	03	"	1515	"	4							X		
B104-80-20120731-F	"	80	04	"	1515	"	4									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chuck Cacek	SES		
Received by:	[illegible]	P. Exp	8/1/12	12:05
Relinquished by: Received	A. Podnozova	PSE	8/1/12	12:25
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 7, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 1, 2012 from the SOU_0797_20120801, F&BI 208024 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0807R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 1, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120801, F&BI 208024 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208024-01	B104-100-20120801
208024-02	B104-100-20120801-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B104-100-20120801	Client:	SoundEarth Strategies
Date Received:	08/01/12	Project:	SOU_0797_20120801, F&BI 208024
Date Extracted:	08/02/12	Lab ID:	208024-01
Date Analyzed:	08/02/12	Data File:	080211.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	97	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.24
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	11
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	5.3
Tetrachloroethene	15

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120801, F&BI 208024
Date Extracted:	08/02/12	Lab ID:	02-1329 mb
Date Analyzed:	08/02/12	Data File:	080210.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	57	121
Toluene-d8	97	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/07/12
Date Received: 08/01/12
Project: SOU_0797_20120801, F&BI 208024

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208023-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	99	36-166
Chloroethane	ug/L (ppb)	50	<1	148	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	97	60-136
Methylene chloride	ug/L (ppb)	50	<5	92	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	102	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	102	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	111	60-146
Trichloroethene	ug/L (ppb)	50	<1	90	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	100	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	100	50-154	3
Chloroethane	ug/L (ppb)	50	165 vo	142	58-146	15
1,1-Dichloroethene	ug/L (ppb)	50	99	99	67-136	0
Methylene chloride	ug/L (ppb)	50	89	89	39-148	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	100	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	102	101	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	104	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	103	101	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	114	113	83-130	1
Trichloroethene	ug/L (ppb)	50	93	93	80-120	0
Tetrachloroethene	ug/L (ppb)	50	108	109	76-121	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208024

SAMPLE CHAIN OF CUSTODY

ME 08/02/12 V2

Page # 1 of

Send Report To Chuck Cacek

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-326-1900 Fax # 206-326-1907

SAMPLERS (sianature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ~~Standard (2 Weeks)~~
- X RUSH 24 hr.

Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Cvoc's		Notes
B104-100-20120801	B104	100	01A-D	8-1-12	1105	water	4							X		
B104-100-20120801-FF	B104	100	02A-D	8-1-12	1105	water	4							X	←	Hold-proc 8/2/12 MC

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendel	SES	8/1/12	0860
Received by:		Nhan Phan	FEBI	8/1/12	0800
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 16, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 10, 2012 from the SOU_0797_20120810, F&BI 208138 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0816R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120810, F&BI 208138 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208138-01	B105-80-20120809
208138-02	B105-80-20120809-F

The 8260C laboratory control sample and laboratory control sample duplicate failed the relative percent difference for chloroethane. The analyte was not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-80-20120809-F	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208138
Date Extracted:	08/10/12	Lab ID:	208138-02
Date Analyzed:	08/10/12	Data File:	081008.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	97	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120810, F&BI 208138
Date Extracted:	08/10/12	Lab ID:	02-1377 mb
Date Analyzed:	08/10/12	Data File:	081006.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	97	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/16/12
Date Received: 08/10/12
Project: SOU_0797_20120810, F&BI 208138

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208145-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	94	36-166
Chloroethane	ug/L (ppb)	50	<1	113	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	93	60-136
Methylene chloride	ug/L (ppb)	50	<5	92	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	96	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	107	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	113	60-146
Trichloroethene	ug/L (ppb)	50	<1	89	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	99	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	92	91	50-154	1
Chloroethane	ug/L (ppb)	50	110	141	58-146	25 vo
1,1-Dichloroethene	ug/L (ppb)	50	94	92	67-136	2
Methylene chloride	ug/L (ppb)	50	94	89	39-148	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	97	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	97	96	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	102	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	98	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	108	108	83-130	0
Trichloroethene	ug/L (ppb)	50	92	91	80-120	1
Tetrachloroethene	ug/L (ppb)	50	108	106	76-121	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208138

SAMPLE CHAIN OF CUSTODY ME 08-10-12

VI

Send Report To Chuck Caceck

Company SES

Address 2811 - Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [signature]

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	CVOCs		Notes
B105-80-20120809	B105	80	01A-D	8/9/12	1330	H2O	4							X		hold per CC 8/10/12 mg
B105-80-20120809-F	B105	80	02A-B	8/9/12	1330	H2O	2							X		hold per CC 8/10/12 mg
																Run per CC 8/10/12 mg

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Robert A Hecker	SES	8-10-12	0755
Received by: [signature]	S. Ohrom	FFB, Inc	8/10/12	07:55
Relinquished by:				
Received by:		Samples received at 10 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 16, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 10, 2012 from the SOU_0797_20120810, F&BI 208158 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0816R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 10, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120810, F&BI 208158 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208158-01	B105-100-20120810
208158-02	B105-100-20120810-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B105-100-20120810-F	Client:	SoundEarth Strategies
Date Received:	08/10/12	Project:	SOU_0797_20120810, F&BI 208158
Date Extracted:	08/13/12	Lab ID:	208158-02
Date Analyzed:	08/13/12	Data File:	081323.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120810, F&BI 208158
Date Extracted:	08/13/12	Lab ID:	02-1379 mb
Date Analyzed:	08/13/12	Data File:	081320.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/16/12
Date Received: 08/10/12
Project: SOU_0797_20120810, F&BI 208158

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208103-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	92	76-124
Chloroethane	ug/L (ppb)	50	<1	87	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	90	75-118
Methylene chloride	ug/L (ppb)	50	<5	93	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	90	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	91	83-109
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	95	77-116
Trichloroethene	ug/L (ppb)	50	<1	83	79-105
Tetrachloroethene	ug/L (ppb)	50	<1	92	69-114

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	94	93	73-126	1
Chloroethane	ug/L (ppb)	50	87	84	69-125	4
1,1-Dichloroethene	ug/L (ppb)	50	90	91	72-122	1
Methylene chloride	ug/L (ppb)	50	95	93	56-128	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	88	74-122	3
1,1-Dichloroethane	ug/L (ppb)	50	96	94	85-107	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	93	92	85-105	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	91	85-107	1
1,1,1-Trichloroethane	ug/L (ppb)	50	96	94	81-114	2
Trichloroethene	ug/L (ppb)	50	86	84	80-104	2
Tetrachloroethene	ug/L (ppb)	50	95	96	81-106	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208158

SAMPLE CHAIN OF CUSTODY

ME 08-10-12 VI

Page # 1 of 1

Send Report To Chuck Carpenter

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1400 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	CVOC'S		Notes
B105-100-20120810	B105	100	01A-D	8-10-12	1010	water	4							X		Hold pr cc 8/14/12
B105-100-20120810-F	B105	100	02A-D	8-10-12	1010	water	4							X		Hold pr cc 8/14/12
																Run pr cc 8/16/12

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hershberger	SES	8-10-12	1425
Received by:		DAVID	F&BI	"	"
Relinquished by:					
Received by:			Samples received at 5 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 13, 2012 from the SOU_0797_20120813, F&BI 208166 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 13, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120813, F&BI 208166 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208166-01	W-MW-02-20120813

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-02-20120813	Client:	SoundEarth Strategies
Date Received:	08/13/12	Project:	SOU_0797_20120813, F&BI 208166
Date Extracted:	08/13/12	Lab ID:	208166-01
Date Analyzed:	08/13/12	Data File:	081327.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	66
Chloroethane	<1
1,1-Dichloroethene	9.9
Methylene chloride	<5
trans-1,2-Dichloroethene	4.1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	2,100 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1,300 ve
Tetrachloroethene	2,700 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-02-20120813	Client:	SoundEarth Strategies
Date Received:	08/13/12	Project:	SOU_0797_20120813, F&BI 208166
Date Extracted:	08/13/12	Lab ID:	208166-01 1/100
Date Analyzed:	08/15/12	Data File:	081431.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	63
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	2,200
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	1,300
Tetrachloroethene	3,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120813, F&BI 208166
Date Extracted:	08/13/12	Lab ID:	02-1379 mb
Date Analyzed:	08/13/12	Data File:	081320.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/17/12
Date Received: 08/13/12
Project: SOU_0797_20120813, F&BI 208166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208103-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	92	76-124
Chloroethane	ug/L (ppb)	50	<1	87	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	90	75-118
Methylene chloride	ug/L (ppb)	50	<5	93	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	90	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	91	83-109
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	95	77-116
Trichloroethene	ug/L (ppb)	50	<1	83	79-105
Tetrachloroethene	ug/L (ppb)	50	<1	92	69-114

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	94	93	73-126	1
Chloroethane	ug/L (ppb)	50	87	84	69-125	4
1,1-Dichloroethene	ug/L (ppb)	50	90	91	72-122	1
Methylene chloride	ug/L (ppb)	50	95	93	56-128	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	88	74-122	3
1,1-Dichloroethane	ug/L (ppb)	50	96	94	85-107	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	93	92	85-105	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	91	85-107	1
1,1,1-Trichloroethane	ug/L (ppb)	50	96	94	81-114	2
Trichloroethene	ug/L (ppb)	50	86	84	80-104	2
Tetrachloroethene	ug/L (ppb)	50	95	96	81-106	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208166

SAMPLE CHAIN OF CUSTODY ME 08-13-12

Page # 1 of 1 V1

Send Report To Chuck Cacek
Company SoundEarth Strategics
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle, WA 98102
Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter/0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
WJ-MW-02-[illegible]3	WMW-02	75	01 A-D	8/13/12	1140	H20	4							X		

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	8/13/12	1235
Received by:	HONG NGUYEN	FEDEX	✓	✓
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 21, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included is the amended report from the testing of material submitted on August 15, 2012 from the SOU_0797_20120815, F&BI 208199 project. A qualifier has been added to the methylene chloride to the dilution of sample B106-50-20120814 stating that the result is due to laboratory contamination.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon, Audrey Hackett
SOU0827R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 27, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 15, 2012 from the SOU_0797_20120815, F&BI 208199 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0827R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 15, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120815, F&BI 208199 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208199-01	B106-35-20120814
208199-02	B106-35-20120814-F
208199-03	B106-50-20120814
208199-04	B106-50-20120814-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-35-20120814	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208199
Date Extracted:	08/16/12	Lab ID:	208199-01
Date Analyzed:	08/17/12	Data File:	081631.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.36
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.0
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	8.2

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-50-20120814	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208199
Date Extracted:	08/16/12	Lab ID:	208199-03
Date Analyzed:	08/17/12	Data File:	081633.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	106	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	20
Chloroethane	<1
1,1-Dichloroethene	2.1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	220 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	110
Tetrachloroethene	970 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-50-20120814	Client:	SoundEarth Strategies
Date Received:	08/15/12	Project:	SOU_0797_20120815, F&BI 208199
Date Extracted:	08/16/12	Lab ID:	208199-03 1/10
Date Analyzed:	08/20/12	Data File:	082026.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	9.3
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	76 lc
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	210
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	120
Tetrachloroethene	1,100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120815, F&BI 208199
Date Extracted:	08/16/12	Lab ID:	02-1386 mb
Date Analyzed:	08/16/12	Data File:	081619.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/27/12
Date Received: 08/15/12
Project: SOU_0797_20120815, F&BI 208199

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208199-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	6.7	133 vo	76-124
Chloroethane	ug/L (ppb)	50	<1	126 vo	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	129 vo	75-118
Methylene chloride	ug/L (ppb)	50	<5	145 vo	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	127 vo	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	32	46 b	83-109
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	92	77-116
Trichloroethene	ug/L (ppb)	50	2.6	82	79-105
Tetrachloroethene	ug/L (ppb)	50	21	65 b	69-114

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	90	92	73-126	2
Chloroethane	ug/L (ppb)	50	85	84	69-125	1
1,1-Dichloroethene	ug/L (ppb)	50	88	90	72-122	2
Methylene chloride	ug/L (ppb)	50	95	92	56-128	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	87	86	74-122	1
1,1-Dichloroethane	ug/L (ppb)	50	94	94	85-107	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	92	85-105	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	85-107	0
1,1,1-Trichloroethane	ug/L (ppb)	50	94	94	81-114	0
Trichloroethene	ug/L (ppb)	50	84	87	80-104	4
Tetrachloroethene	ug/L (ppb)	50	91	93	81-106	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 16, 2012 from the SOU_0797_20120816, F&BI 208222 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 16, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120816, F&BI 208222 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208222-01	B106-90-20120815
208222-02	B106-90-20120815-F

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B106-90-20120815	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208222
Date Extracted:	08/16/12	Lab ID:	208222-01
Date Analyzed:	08/16/12	Data File:	081630.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.62
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	9.7
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	2.3
Tetrachloroethene	19

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120816, F&BI 208222
Date Extracted:	08/16/12	Lab ID:	02-1386 mb
Date Analyzed:	08/16/12	Data File:	081619.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/17/12
Date Received: 08/16/12
Project: SOU_0797_20120816, F&BI 208222

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208199-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	6.7	133 vo	76-124
Chloroethane	ug/L (ppb)	50	<1	126 vo	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	129 vo	75-118
Methylene chloride	ug/L (ppb)	50	<5	145 vo	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	127 vo	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	32	46 b	83-109
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Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
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1,1-Dichloroethene	ug/L (ppb)	50	88	90	72-122	2
Methylene chloride	ug/L (ppb)	50	95	92	56-128	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	87	86	74-122	1
1,1-Dichloroethane	ug/L (ppb)	50	94	94	85-107	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	92	85-105	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	85-107	0
1,1,1-Trichloroethane	ug/L (ppb)	50	94	94	81-114	0
Trichloroethene	ug/L (ppb)	50	84	87	80-104	4
Tetrachloroethene	ug/L (ppb)	50	91	93	81-106	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

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ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208222

SAMPLE CHAIN OF CUSTODY

ME 08-16-12 V2

Page # 1 of 1

Send Report To Chuck Cacek

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☑ RUSH 48hr
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOC's		Notes
B106-90-20120815	B106	90	01A-D	8-15-12	1300	water	4							X		
B106-90-20120815-F	B106	90	02 F	8-15-12	1300	water	4							X		Hold per CCE 8/16/12 mc

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	8/16/12	1200
Received by:	HONG NGUYEN	FBI	"	"
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 12 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 17, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 16, 2012 from the SOU_0797_20120816, F&BI 208223 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0817R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 16, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120816, F&BI 208223 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208223-01	MW102-20120816
208223-02	MW104-20120816
208223-03	MW105-20120816

Several 8260C compounds exceeded the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW102-20120816	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208223
Date Extracted:	08/16/12	Lab ID:	208223-01
Date Analyzed:	08/16/12	Data File:	081627.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW104-20120816	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208223
Date Extracted:	08/16/12	Lab ID:	208223-02
Date Analyzed:	08/16/12	Data File:	081628.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW105-20120816	Client:	SoundEarth Strategies
Date Received:	08/16/12	Project:	SOU_0797_20120816, F&BI 208223
Date Extracted:	08/16/12	Lab ID:	208223-03
Date Analyzed:	08/16/12	Data File:	081629.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.32
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120816, F&BI 208223
Date Extracted:	08/16/12	Lab ID:	02-1386 mb
Date Analyzed:	08/16/12	Data File:	081619.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/17/12
Date Received: 08/16/12
Project: SOU_0797_20120816, F&BI 208223

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208199-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	6.7	133 vo	76-124
Chloroethane	ug/L (ppb)	50	<1	126 vo	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	129 vo	75-118
Methylene chloride	ug/L (ppb)	50	<5	145 vo	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	127 vo	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	32	46 b	83-109
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	92	77-116
Trichloroethene	ug/L (ppb)	50	2.6	82	79-105
Tetrachloroethene	ug/L (ppb)	50	21	65 b	69-114

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	90	92	73-126	2
Chloroethane	ug/L (ppb)	50	85	84	69-125	1
1,1-Dichloroethene	ug/L (ppb)	50	88	90	72-122	2
Methylene chloride	ug/L (ppb)	50	95	92	56-128	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	87	86	74-122	1
1,1-Dichloroethane	ug/L (ppb)	50	94	94	85-107	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	92	85-105	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	85-107	0
1,1,1-Trichloroethane	ug/L (ppb)	50	94	94	81-114	0
Trichloroethene	ug/L (ppb)	50	84	87	80-104	4
Tetrachloroethene	ug/L (ppb)	50	91	93	81-106	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

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J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208223

SAMPLE CHAIN OF CUSTODY

ME 08-16-12

V3

Page # 1 of 1

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206.306.1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS: 48-hour turn

GEMS Y / N:

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [x] RUSH 48 hrs
- Rush charges authorized by: ECC

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs		Notes
MW102-20120816	MW102		01A-D	8/16/12	0935	H2O	4							X		
MW104-20120816	MW104		02 T		1040	H2O	4							X		
MW105-20120816	MW105		03		1133	H2O	4							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mandel	SES	8/16/12	1000
Received by:	HUNG NG NGUYEN	FBI	V	L
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 12 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

August 29, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on August 22, 2012 from the SOU_0797_20120822, F&BI 208316 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0829R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 22, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20120822, F&BI 208316 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
208316-01	MW106-20120822

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW106-20120822	Client:	SoundEarth Strategies
Date Received:	08/22/12	Project:	SOU_0797_20120822, F&BI 208316
Date Extracted:	08/22/12	Lab ID:	208316-01
Date Analyzed:	08/22/12	Data File:	082225.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20120822, F&BI 208316
Date Extracted:	08/22/12	Lab ID:	02-1481 mb
Date Analyzed:	08/22/12	Data File:	082218.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 08/29/12
Date Received: 08/22/12
Project: SOU_0797_20120822, F&BI 208316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 208291-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	112	76-124
Chloroethane	ug/L (ppb)	50	<1	103	69-123
1,1-Dichloroethene	ug/L (ppb)	50	<1	108	75-118
Methylene chloride	ug/L (ppb)	50	<5	97	64-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	102	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	82-109
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	83-109
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	98	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	106	77-116
Trichloroethene	ug/L (ppb)	50	<1	91	79-105
Tetrachloroethene	ug/L (ppb)	50	<1	101	69-114

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	112	108	73-126	4
Chloroethane	ug/L (ppb)	50	101	97	69-125	4
1,1-Dichloroethene	ug/L (ppb)	50	109	104	72-122	5
Methylene chloride	ug/L (ppb)	50	99	95	56-128	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	97	74-122	5
1,1-Dichloroethane	ug/L (ppb)	50	98	95	85-107	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	97	85-105	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	97	93	85-107	4
1,1,1-Trichloroethane	ug/L (ppb)	50	106	103	81-114	3
Trichloroethene	ug/L (ppb)	50	91	88	80-104	3
Tetrachloroethene	ug/L (ppb)	50	100	97	81-106	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

208316

SAMPLE CHAIN OF CUSTODY

ME 08/22/12

Page # 1 of 1 V2

Send Report To Chuck Cacek

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206.306.1907

SAMPLERS (signature)

PROJECT NAME/NO.: 700 Dexter / 0797

PO #:

REMARKS:

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOC's by 8270	RCRA-8 Metals	cVOCs		Notes
MW106-20120822	MW106	135	01A-D	8/22/12	1050	H2O	4							X		

Rec'd 8/22/12

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendel	SES	8/22/12	1150
Received by:	S. Osborn	S. Osborn	FedEx	8/22/12	11:50A
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 13 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

September 19, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on September 4, 2012 from the SOU_0797-001-02_20120904, F&BI 209016 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0919R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 4, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-02_20120904, F&BI 209016 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
209016-01	MW-9-20120904
209016-02	R-MW2-20120904
209016-03	R-MW3-20120904

Several compounds in the 8260C laboratory control sample and laboratory control sample duplicate failed the acceptance criteria. The data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-9-20120904	Client:	SoundEarth Strategies
Date Received:	09/04/12	Project:	SOU_0797-001-02_20120904, F&BI 209016
Date Extracted:	09/05/12	Lab ID:	209016-01
Date Analyzed:	09/05/12	Data File:	090520.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.61	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1 jl
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1 jl
Dibromomethane	<1	1,4-Dichlorobenzene	<1 jl
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1 jl
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW2-20120904	Client:	SoundEarth Strategies
Date Received:	09/04/12	Project:	SOU_0797-001-02_20120904, F&BI 209016
Date Extracted:	09/05/12	Lab ID:	209016-02
Date Analyzed:	09/05/12	Data File:	090521.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	21
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	28
cis-1,2-Dichloroethene	<1	Bromobenzene	<1 jl
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	5.2
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1 jl
Dibromomethane	<1	1,4-Dichlorobenzene	<1 jl
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1 jl
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	R-MW3-20120904	Client:	SoundEarth Strategies
Date Received:	09/04/12	Project:	SOU_0797-001-02_20120904, F&BI 209016
Date Extracted:	09/05/12	Lab ID:	209016-03
Date Analyzed:	09/05/12	Data File:	090522.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	6.4
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1 jl
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1 jl
Dibromomethane	<1	1,4-Dichlorobenzene	<1 jl
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1 jl
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20120904, F&BI 209016
Date Extracted:	09/05/12	Lab ID:	02-1576 mb
Date Analyzed:	09/05/12	Data File:	090519.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1 jl
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1 jl
Dibromomethane	<1	1,4-Dichlorobenzene	<1 jl
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1 jl
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Date of Report: 09/19/12
Date Received: 09/04/12
Project: SOU_0797-001-02_20120904, F&BI 209016

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 209016-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	104	62-131
Chloromethane	ug/L (ppb)	50	<10	98	68-127
Vinyl chloride	ug/L (ppb)	50	0.61	103	76-124
Bromomethane	ug/L (ppb)	50	<1	94	67-127
Chloroethane	ug/L (ppb)	50	<1	101	69-123
Trichlorofluoromethane	ug/L (ppb)	50	<1	100	75-121
Acetone	ug/L (ppb)	250	<10	84	68-137
1,1-Dichloroethene	ug/L (ppb)	50	<1	92	75-118
Methylene chloride	ug/L (ppb)	50	<5	85	64-120
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	94	74-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	93	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	82-109
2,2-Dichloropropane	ug/L (ppb)	50	<1	95	62-124
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	93	83-109
Chloroform	ug/L (ppb)	50	<1	92	81-110
2-Butanone (MEK)	ug/L (ppb)	250	<10	86	75-122
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	95	77-116
1,1-Dichloropropene	ug/L (ppb)	50	<1	93	81-110
Carbon tetrachloride	ug/L (ppb)	50	<1	95	74-119
Benzene	ug/L (ppb)	50	<0.35	93	79-108
Trichloroethene	ug/L (ppb)	50	<1	91	79-105
1,2-Dichloropropane	ug/L (ppb)	50	<1	93	83-110
Bromodichloromethane	ug/L (ppb)	50	<1	96	77-118
Dibromomethane	ug/L (ppb)	50	<1	93	82-109
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	92	78-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	101	76-120
Toluene	ug/L (ppb)	50	<1	92	82-108
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	97	77-118
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	92	83-110
2-Hexanone	ug/L (ppb)	250	<10	92	75-128
1,3-Dichloropropane	ug/L (ppb)	50	<1	93	84-109
Tetrachloroethene	ug/L (ppb)	50	<1	91	69-114
Dibromochloromethane	ug/L (ppb)	50	<1	96	66-133
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	94	85-110
Chlorobenzene	ug/L (ppb)	50	<1	90	82-107
Ethylbenzene	ug/L (ppb)	50	<1	91	79-112
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	93	78-118
m,p-Xylene	ug/L (ppb)	100	<2	93	81-111
o-Xylene	ug/L (ppb)	50	<1	92	82-110
Styrene	ug/L (ppb)	50	<1	95	73-116
Isopropylbenzene	ug/L (ppb)	50	<1	94	80-112
Bromoform	ug/L (ppb)	50	<1	90	45-151
n-Propylbenzene	ug/L (ppb)	50	<1	92	77-116
Bromobenzene	ug/L (ppb)	50	<1	90	84-110
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	94	78-114
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	100	82-117
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	91	77-116
2-Chlorotoluene	ug/L (ppb)	50	<1	89	79-112
4-Chlorotoluene	ug/L (ppb)	50	<1	91	80-112
tert-Butylbenzene	ug/L (ppb)	50	<1	94	81-114
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	94	76-115
sec-Butylbenzene	ug/L (ppb)	50	<1	93	80-115
p-Isopropyltoluene	ug/L (ppb)	50	<1	94	78-116
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	90	81-110
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	88	79-109
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	91	81-110
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	98	67-128
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	84	77-113
Hexachlorobutadiene	ug/L (ppb)	50	<1	90	66-122
Naphthalene	ug/L (ppb)	50	<1	96	79-120
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	94	78-115

Date of Report: 09/19/12
Date Received: 09/04/12
Project: SOU_0797-001-02_20120904, F&BI 209016

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	95	94	56-138	1
Chloromethane	ug/L (ppb)	50	93	92	66-131	1
Vinyl chloride	ug/L (ppb)	50	101	101	73-126	0
Bromomethane	ug/L (ppb)	50	90	91	65-131	1
Chloroethane	ug/L (ppb)	50	95	95	69-125	0
Trichlorofluoromethane	ug/L (ppb)	50	94	92	75-124	2
Acetone	ug/L (ppb)	250	76	77	64-136	1
1,1-Dichloroethene	ug/L (ppb)	50	87	87	72-122	0
Methylene chloride	ug/L (ppb)	50	83	85	56-128	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	89	90	76-120	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	86	86	74-122	0
1,1-Dichloroethane	ug/L (ppb)	50	90	90	85-107	0
2,2-Dichloropropane	ug/L (ppb)	50	95	95	83-119	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	89	89	85-105	0
Chloroform	ug/L (ppb)	50	86	88	83-107	2
2-Butanone (MEK)	ug/L (ppb)	250	79	79	75-118	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	85	86	85-107	1
1,1,1-Trichloroethane	ug/L (ppb)	50	89	91	81-114	2
1,1-Dichloropropene	ug/L (ppb)	50	87	88	85-107	1
Carbon tetrachloride	ug/L (ppb)	50	91	90	77-118	1
Benzene	ug/L (ppb)	50	87	88	81-107	1
Trichloroethene	ug/L (ppb)	50	89	89	80-104	0
1,2-Dichloropropane	ug/L (ppb)	50	88	90	86-106	2
Bromodichloromethane	ug/L (ppb)	50	92	93	76-117	1
Dibromomethane	ug/L (ppb)	50	87	88	86-106	1
4-Methyl-2-pentanone	ug/L (ppb)	250	85	85	85-113	0
cis-1,3-Dichloropropene	ug/L (ppb)	50	103	103	78-120	0
Toluene	ug/L (ppb)	50	87	88	86-105	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	99	101	82-116	2
1,1,2-Trichloroethane	ug/L (ppb)	50	90	90	87-106	0
2-Hexanone	ug/L (ppb)	250	84	86	84-117	2
1,3-Dichloropropane	ug/L (ppb)	50	88	90	86-107	2
Tetrachloroethene	ug/L (ppb)	50	87	89	81-106	2
Dibromochloromethane	ug/L (ppb)	50	95	98	57-138	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	89	92	89-107	3
Chlorobenzene	ug/L (ppb)	50	86	88	86-104	2
Ethylbenzene	ug/L (ppb)	50	87	89	87-107	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	89	90	79-117	1
m,p-Xylene	ug/L (ppb)	100	88	89	87-107	1
o-Xylene	ug/L (ppb)	50	88	89	86-107	1
Styrene	ug/L (ppb)	50	92	94	87-110	2
Isopropylbenzene	ug/L (ppb)	50	90	91	87-108	1
Bromoform	ug/L (ppb)	50	93	95	27-167	2
n-Propylbenzene	ug/L (ppb)	50	88	89	87-109	1
Bromobenzene	ug/L (ppb)	50	84 vo	87	86-108	4
1,3,5-Trimethylbenzene	ug/L (ppb)	50	91	92	88-108	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	90	91	82-116	1
1,2,3-Trichloropropane	ug/L (ppb)	50	86	87	75-117	1
2-Chlorotoluene	ug/L (ppb)	50	86	88	85-109	2
4-Chlorotoluene	ug/L (ppb)	50	87	87	87-107	0
tert-Butylbenzene	ug/L (ppb)	50	89	90	86-110	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	90	90	87-109	0
sec-Butylbenzene	ug/L (ppb)	50	89	90	88-110	1
p-Isopropyltoluene	ug/L (ppb)	50	89	91	87-112	2
1,3-Dichlorobenzene	ug/L (ppb)	50	85 vo	86 vo	88-105	1
1,4-Dichlorobenzene	ug/L (ppb)	50	83 vo	85 vo	87-104	2
1,2-Dichlorobenzene	ug/L (ppb)	50	86	87	86-107	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	94	97	65-126	3
1,2,4-Trichlorobenzene	ug/L (ppb)	50	84 vo	86	86-109	2
Hexachlorobutadiene	ug/L (ppb)	50	88	92	78-116	4
Naphthalene	ug/L (ppb)	50	95	96	89-114	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	94	95	89-111	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209816

SAMPLE CHAIN OF CUSTODY

ME # 09-04-12 V2

Page # 1 of 1

Send Report To Chuck Cacek, Brian Dixon

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 200

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Alsco Property (700 Dexter) 0797-001-02

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
X Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
X Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	Fuels & VOC's by 8260C	RCRA-8 Metals			Notes
MW-9-20120904	MW-9	19.5	01A-D	9/4/12	1403	H_2O	4					X				
R-MW2-20120904	R-MW2	14.0	02 T	↓	1413	↓	↓					X				
R-MW3-20120904	R-MW3	16.0	03 T	↓	1515	↓	↓					X				

WB

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		WILL CAMARDA	SEE	9/4/12	1557
Received by:		DO VO	FXBE	11	1
Relinquished by:					
Received by:			Samples received at 5 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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TEL: (206) 285-8282
e-mail: fbi@isomedia.com

September 19, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on September 5, 2012 from the SOU_0797-001-02_20120905, F&BI 209044 project. There are 20 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0919R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 5, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-02_20120905, F&BI 209044 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
209044-01	MW103-20120905
209044-02	MW105-20120905
209044-03	MW106-20120905
209044-04	W-MW-02-20120905
209044-05	RMW-1-20120905
209044-06	RMW-5-20120905
209044-07	RMW-6-20120905
209044-08	BB-8-20120905
209044-09	MW102-20120905
209044-10	MW99-20120905

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW103-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-01
Date Analyzed:	09/06/12	Data File:	090626.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	8.3
Vinyl chloride	110	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	80	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	22	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.6	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW105-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-02
Date Analyzed:	09/06/12	Data File:	090627.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.23	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW106-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-03
Date Analyzed:	09/06/12	Data File:	090628.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-02-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-04
Date Analyzed:	09/06/12	Data File:	090629.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	2,900 ve
Vinyl chloride	69	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	10	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	5.0	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	3,000 ve	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	1,400 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.4	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-02-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-04 1/100
Date Analyzed:	09/10/12	Data File:	091024.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<100	1,3-Dichloropropane	<100
Chloromethane	<1,000	Tetrachloroethene	2,600
Vinyl chloride	63	Dibromochloromethane	<100
Bromomethane	<100	1,2-Dibromoethane (EDB)	<100
Chloroethane	<100	Chlorobenzene	<100
Trichlorofluoromethane	<100	Ethylbenzene	<100
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<100
1,1-Dichloroethene	<100	m,p-Xylene	<200
Methylene chloride	<500	o-Xylene	<100
Methyl t-butyl ether (MTBE)	<100	Styrene	<100
trans-1,2-Dichloroethene	<100	Isopropylbenzene	<100
1,1-Dichloroethane	<100	Bromoform	<100
2,2-Dichloropropane	<100	n-Propylbenzene	<100
cis-1,2-Dichloroethene	2,800	Bromobenzene	<100
Chloroform	<100	1,3,5-Trimethylbenzene	<100
2-Butanone (MEK)	<1,000	1,1,2,2-Tetrachloroethane	<100
1,2-Dichloroethane (EDC)	<100	1,2,3-Trichloropropane	<100
1,1,1-Trichloroethane	<100	2-Chlorotoluene	<100
1,1-Dichloropropene	<100	4-Chlorotoluene	<100
Carbon tetrachloride	<100	tert-Butylbenzene	<100
Benzene	<35	1,2,4-Trimethylbenzene	<100
Trichloroethene	1,300	sec-Butylbenzene	<100
1,2-Dichloropropane	<100	p-Isopropyltoluene	<100
Bromodichloromethane	<100	1,3-Dichlorobenzene	<100
Dibromomethane	<100	1,4-Dichlorobenzene	<100
4-Methyl-2-pentanone	<1,000	1,2-Dichlorobenzene	<100
cis-1,3-Dichloropropene	<100	1,2-Dibromo-3-chloropropane	<1,000
Toluene	<100	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<100	Hexachlorobutadiene	<100
1,1,2-Trichloroethane	<100	Naphthalene	<100
2-Hexanone	<1,000	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	RMW-1-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-05
Date Analyzed:	09/10/12	Data File:	091021.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	16
Vinyl chloride	2.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	2.1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	3.6	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	RMW-5-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-06
Date Analyzed:	09/06/12	Data File:	090631.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	93	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	RMW-6-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-07
Date Analyzed:	09/06/12	Data File:	090632.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-08
Date Analyzed:	09/06/12	Data File:	090633.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	210 ve
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	28	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	41	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BB-8-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-08 1/10
Date Analyzed:	09/10/12	Data File:	091025.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	200
Vinyl chloride	<2	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	<10	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<100	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<20
Methylene chloride	<50	o-Xylene	<10
Methyl t-butyl ether (MTBE)	<10	Styrene	<10
trans-1,2-Dichloroethene	<10	Isopropylbenzene	<10
1,1-Dichloroethane	<10	Bromoform	<10
2,2-Dichloropropane	<10	n-Propylbenzene	<10
cis-1,2-Dichloroethene	29	Bromobenzene	<10
Chloroform	<10	1,3,5-Trimethylbenzene	<10
2-Butanone (MEK)	<100	1,1,2,2-Tetrachloroethane	<10
1,2-Dichloroethane (EDC)	<10	1,2,3-Trichloropropane	<10
1,1,1-Trichloroethane	<10	2-Chlorotoluene	<10
1,1-Dichloropropene	<10	4-Chlorotoluene	<10
Carbon tetrachloride	<10	tert-Butylbenzene	<10
Benzene	<3.5	1,2,4-Trimethylbenzene	<10
Trichloroethene	38	sec-Butylbenzene	<10
1,2-Dichloropropane	<10	p-Isopropyltoluene	<10
Bromodichloromethane	<10	1,3-Dichlorobenzene	<10
Dibromomethane	<10	1,4-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dichlorobenzene	<10
cis-1,3-Dichloropropene	<10	1,2-Dibromo-3-chloropropane	<100
Toluene	<10	1,2,4-Trichlorobenzene	<10
trans-1,3-Dichloropropene	<10	Hexachlorobutadiene	<10
1,1,2-Trichloroethane	<10	Naphthalene	<10
2-Hexanone	<100	1,2,3-Trichlorobenzene	<10

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW102-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-09
Date Analyzed:	09/07/12	Data File:	090634.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	1.2	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW99-20120905	Client:	SoundEarth Strategies
Date Received:	09/05/12	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	209044-10
Date Analyzed:	09/07/12	Data File:	090635.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	8.1
Vinyl chloride	120	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	85	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	22	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.6	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/06/12	Lab ID:	02-1590 mb
Date Analyzed:	09/06/12	Data File:	090612.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20120905, F&BI 209044
Date Extracted:	09/10/12	Lab ID:	02-1613 mb
Date Analyzed:	09/10/12	Data File:	091020.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Date of Report: 09/19/12
Date Received: 09/05/12
Project: SOU_0797-001-02_20120905, F&BI 209044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 209046-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	97	62-131
Chloromethane	ug/L (ppb)	50	<10	98	68-127
Vinyl chloride	ug/L (ppb)	50	<0.2	109	76-124
Bromomethane	ug/L (ppb)	50	<1	104	67-127
Chloroethane	ug/L (ppb)	50	<1	103	69-123
Trichlorofluoromethane	ug/L (ppb)	50	<1	108	75-121
Acetone	ug/L (ppb)	250	<10	86	68-137
1,1-Dichloroethene	ug/L (ppb)	50	<1	98	75-118
Methylene chloride	ug/L (ppb)	50	<5	93	64-120
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	96	74-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	96	82-109
2,2-Dichloropropane	ug/L (ppb)	50	<1	95	62-124
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	83-109
Chloroform	ug/L (ppb)	50	<1	96	81-110
2-Butanone (MEK)	ug/L (ppb)	250	<10	84	75-122
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	97	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	103	77-116
1,1-Dichloropropene	ug/L (ppb)	50	<1	92	81-110
Carbon tetrachloride	ug/L (ppb)	50	<1	105	74-119
Benzene	ug/L (ppb)	50	<0.35	96	79-108
Trichloroethene	ug/L (ppb)	50	<1	98	79-105
1,2-Dichloropropane	ug/L (ppb)	50	<1	97	83-110
Bromodichloromethane	ug/L (ppb)	50	<1	100	77-118
Dibromomethane	ug/L (ppb)	50	<1	101	82-109
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	97	78-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	97	76-120
Toluene	ug/L (ppb)	50	<1	91	82-108
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	88	77-118
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	94	83-110
2-Hexanone	ug/L (ppb)	250	<10	92	75-128
1,3-Dichloropropane	ug/L (ppb)	50	<1	93	84-109
Tetrachloroethene	ug/L (ppb)	50	<1	94	69-114
Dibromochloromethane	ug/L (ppb)	50	<1	101	66-133
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	99	85-110
Chlorobenzene	ug/L (ppb)	50	<1	95	82-107
Ethylbenzene	ug/L (ppb)	50	<1	93	79-112
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	100	78-118
m,p-Xylene	ug/L (ppb)	100	<2	96	81-111
o-Xylene	ug/L (ppb)	50	<1	95	82-110
Styrene	ug/L (ppb)	50	<1	98	73-116
Isopropylbenzene	ug/L (ppb)	50	<1	98	80-112
Bromoform	ug/L (ppb)	50	<1	88	45-151
n-Propylbenzene	ug/L (ppb)	50	<1	89	77-116
Bromobenzene	ug/L (ppb)	50	<1	93	84-110
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	96	78-114
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	95	82-117
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	87	77-116
2-Chlorotoluene	ug/L (ppb)	50	<1	88	79-112
4-Chlorotoluene	ug/L (ppb)	50	<1	90	80-112
tert-Butylbenzene	ug/L (ppb)	50	<1	96	81-114
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	95	76-115
sec-Butylbenzene	ug/L (ppb)	50	<1	94	80-115
p-Isopropyltoluene	ug/L (ppb)	50	<1	96	78-116
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	93	81-110
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	92	79-109
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	94	81-110
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	96	67-128
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	81	77-113
Hexachlorobutadiene	ug/L (ppb)	50	<1	83	66-122
Naphthalene	ug/L (ppb)	50	<1	98	79-120
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	91	78-115

Date of Report: 09/19/12
Date Received: 09/05/12
Project: SOU_0797-001-02_20120905, F&BI 209044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	134	133	56-138	1
Chloromethane	ug/L (ppb)	50	111	111	66-131	0
Vinyl chloride	ug/L (ppb)	50	119	119	73-126	0
Bromomethane	ug/L (ppb)	50	108	107	65-131	1
Chloroethane	ug/L (ppb)	50	111	111	69-125	0
Trichlorofluoromethane	ug/L (ppb)	50	111	110	75-124	1
Acetone	ug/L (ppb)	250	87	86	64-136	1
1,1-Dichloroethene	ug/L (ppb)	50	101	101	72-122	0
Methylene chloride	ug/L (ppb)	50	94	94	56-128	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	101	102	76-120	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	99	74-122	2
1,1-Dichloroethane	ug/L (ppb)	50	102	101	85-107	1
2,2-Dichloropropane	ug/L (ppb)	50	113	111	83-119	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	101	85-105	0
Chloroform	ug/L (ppb)	50	99	99	83-107	0
2-Butanone (MEK)	ug/L (ppb)	250	88	88	75-118	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	97	97	85-107	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	104	81-114	0
1,1-Dichloropropene	ug/L (ppb)	50	100	100	85-107	0
Carbon tetrachloride	ug/L (ppb)	50	104	104	77-118	0
Benzene	ug/L (ppb)	50	100	100	81-107	0
Trichloroethene	ug/L (ppb)	50	99	99	80-104	0
1,2-Dichloropropane	ug/L (ppb)	50	100	100	86-106	0
Bromodichloromethane	ug/L (ppb)	50	103	102	76-117	1
Dibromomethane	ug/L (ppb)	50	100	100	86-106	0
4-Methyl-2-pentanone	ug/L (ppb)	250	97	96	85-113	1
cis-1,3-Dichloropropene	ug/L (ppb)	50	114	113	78-120	1
Toluene	ug/L (ppb)	50	99	99	86-105	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	110	109	82-116	1
1,1,2-Trichloroethane	ug/L (ppb)	50	101	99	87-106	2
2-Hexanone	ug/L (ppb)	250	95	94	84-117	1
1,3-Dichloropropane	ug/L (ppb)	50	101	100	86-107	1
Tetrachloroethene	ug/L (ppb)	50	99	98	81-106	1
Dibromochloromethane	ug/L (ppb)	50	105	105	57-138	0
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	104	102	89-107	2
Chlorobenzene	ug/L (ppb)	50	98	98	86-104	0
Ethylbenzene	ug/L (ppb)	50	100	99	87-107	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	103	102	79-117	1
m,p-Xylene	ug/L (ppb)	100	101	100	87-107	1
o-Xylene	ug/L (ppb)	50	100	100	86-107	0
Styrene	ug/L (ppb)	50	106	105	87-110	1
Isopropylbenzene	ug/L (ppb)	50	103	102	87-108	1
Bromoform	ug/L (ppb)	50	98	99	27-167	1
n-Propylbenzene	ug/L (ppb)	50	101	99	87-109	2
Bromobenzene	ug/L (ppb)	50	97	96	86-108	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	104	103	88-108	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	106	104	82-116	2
1,2,3-Trichloropropane	ug/L (ppb)	50	97	96	75-117	1
2-Chlorotoluene	ug/L (ppb)	50	98	97	85-109	1
4-Chlorotoluene	ug/L (ppb)	50	100	98	87-107	2
tert-Butylbenzene	ug/L (ppb)	50	102	101	86-110	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	103	101	87-109	2
sec-Butylbenzene	ug/L (ppb)	50	102	101	88-110	1
p-Isopropyltoluene	ug/L (ppb)	50	103	102	87-112	1
1,3-Dichlorobenzene	ug/L (ppb)	50	98	97	88-105	1
1,4-Dichlorobenzene	ug/L (ppb)	50	97	95	87-104	2
1,2-Dichlorobenzene	ug/L (ppb)	50	99	97	86-107	2
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	105	104	65-126	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	94	94	86-109	0
Hexachlorobutadiene	ug/L (ppb)	50	102	102	78-116	0
Naphthalene	ug/L (ppb)	50	107	105	89-114	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	106	106	89-111	0

Date of Report: 09/19/12
Date Received: 09/05/12
Project: SOU_0797-001-02_20120905, F&BI 209044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 209075-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	117	62-131
Chloromethane	ug/L (ppb)	50	<10	103	68-127
Vinyl chloride	ug/L (ppb)	50	1.6	114	76-124
Bromomethane	ug/L (ppb)	50	<1	99	67-127
Chloroethane	ug/L (ppb)	50	<1	103	69-123
Trichlorofluoromethane	ug/L (ppb)	50	<1	105	75-121
Acetone	ug/L (ppb)	250	<10	86	68-137
1,1-Dichloroethene	ug/L (ppb)	50	<1	96	75-118
Methylene chloride	ug/L (ppb)	50	<5	90	64-120
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	97	74-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	82-109
2,2-Dichloropropane	ug/L (ppb)	50	<1	95	62-124
cis-1,2-Dichloroethene	ug/L (ppb)	50	6.1	97	83-109
Chloroform	ug/L (ppb)	50	<1	96	81-110
2-Butanone (MEK)	ug/L (ppb)	250	<10	89	75-122
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	99	77-116
1,1-Dichloropropene	ug/L (ppb)	50	<1	96	81-110
Carbon tetrachloride	ug/L (ppb)	50	<1	100	74-119
Benzene	ug/L (ppb)	50	0.73	97	79-108
Trichloroethene	ug/L (ppb)	50	4.1	93	79-105
1,2-Dichloropropane	ug/L (ppb)	50	<1	99	83-110
Bromodichloromethane	ug/L (ppb)	50	<1	100	77-118
Dibromomethane	ug/L (ppb)	50	<1	96	82-109
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	94	78-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	104	76-120
Toluene	ug/L (ppb)	50	<1	96	82-108
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	77-118
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	98	83-110
2-Hexanone	ug/L (ppb)	250	<10	94	75-128
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	84-109
Tetrachloroethene	ug/L (ppb)	50	22	97 b	69-114
Dibromochloromethane	ug/L (ppb)	50	<1	101	66-133
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	98	85-110
Chlorobenzene	ug/L (ppb)	50	<1	94	82-107
Ethylbenzene	ug/L (ppb)	50	<1	95	79-112
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	98	78-118
m,p-Xylene	ug/L (ppb)	100	<2	94	81-111
o-Xylene	ug/L (ppb)	50	<1	94	82-110
Styrene	ug/L (ppb)	50	<1	92	73-116
Isopropylbenzene	ug/L (ppb)	50	<1	98	80-112
Bromoform	ug/L (ppb)	50	<1	93	45-151
n-Propylbenzene	ug/L (ppb)	50	<1	95	77-116
Bromobenzene	ug/L (ppb)	50	<1	93	84-110
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	94	78-114
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	104	82-117
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	95	77-116
2-Chlorotoluene	ug/L (ppb)	50	<1	94	79-112
4-Chlorotoluene	ug/L (ppb)	50	<1	93	80-112
tert-Butylbenzene	ug/L (ppb)	50	<1	96	81-114
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	94	76-115
sec-Butylbenzene	ug/L (ppb)	50	<1	96	80-115
p-Isopropyltoluene	ug/L (ppb)	50	<1	96	78-116
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	93	81-110
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	92	79-109
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	94	81-110
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	102	67-128
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	88	77-113
Hexachlorobutadiene	ug/L (ppb)	50	<1	94	66-122
Naphthalene	ug/L (ppb)	50	<1	97	79-120
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	97	78-115

Date of Report: 09/19/12
Date Received: 09/05/12
Project: SOU_0797-001-02_20120905, F&BI 209044

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	111	119	56-138	7
Chloromethane	ug/L (ppb)	50	102	103	66-131	1
Vinyl chloride	ug/L (ppb)	50	113	114	73-126	1
Bromomethane	ug/L (ppb)	50	100	102	65-131	2
Chloroethane	ug/L (ppb)	50	104	107	69-125	3
Trichlorofluoromethane	ug/L (ppb)	50	104	106	75-124	2
Acetone	ug/L (ppb)	250	81	83	64-136	2
1,1-Dichloroethene	ug/L (ppb)	50	97	99	72-122	2
Methylene chloride	ug/L (ppb)	50	90	93	56-128	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	98	100	76-120	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	94	98	74-122	4
1,1-Dichloroethane	ug/L (ppb)	50	97	99	85-107	2
2,2-Dichloropropane	ug/L (ppb)	50	105	108	83-119	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	85-105	1
Chloroform	ug/L (ppb)	50	95	97	83-107	2
2-Butanone (MEK)	ug/L (ppb)	250	85	87	75-118	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	93	85-107	1
1,1,1-Trichloroethane	ug/L (ppb)	50	98	101	81-114	3
1,1-Dichloropropene	ug/L (ppb)	50	95	97	85-107	2
Carbon tetrachloride	ug/L (ppb)	50	100	103	77-118	3
Benzene	ug/L (ppb)	50	95	97	81-107	2
Trichloroethene	ug/L (ppb)	50	94	97	80-104	3
1,2-Dichloropropane	ug/L (ppb)	50	97	99	86-106	2
Bromodichloromethane	ug/L (ppb)	50	101	102	76-117	1
Dibromomethane	ug/L (ppb)	50	95	98	86-106	3
4-Methyl-2-pentanone	ug/L (ppb)	250	92	96	85-113	4
cis-1,3-Dichloropropene	ug/L (ppb)	50	112	114	78-120	2
Toluene	ug/L (ppb)	50	95	96	86-105	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	110	112	82-116	2
1,1,2-Trichloroethane	ug/L (ppb)	50	97	98	87-106	1
2-Hexanone	ug/L (ppb)	250	90	91	84-117	1
1,3-Dichloropropane	ug/L (ppb)	50	97	98	86-107	1
Tetrachloroethene	ug/L (ppb)	50	97	97	81-106	0
Dibromochloromethane	ug/L (ppb)	50	107	109	57-138	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	98	101	89-107	3
Chlorobenzene	ug/L (ppb)	50	94	96	86-104	2
Ethylbenzene	ug/L (ppb)	50	96	97	87-107	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	98	100	79-117	2
m,p-Xylene	ug/L (ppb)	100	97	98	87-107	1
o-Xylene	ug/L (ppb)	50	96	98	86-107	2
Styrene	ug/L (ppb)	50	102	103	87-110	1
Isopropylbenzene	ug/L (ppb)	50	99	101	87-108	2
Bromoform	ug/L (ppb)	50	107	107	27-167	0
n-Propylbenzene	ug/L (ppb)	50	97	99	87-109	2
Bromobenzene	ug/L (ppb)	50	96	97	86-108	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	103	88-108	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	103	104	82-116	1
1,2,3-Trichloropropane	ug/L (ppb)	50	94	97	75-117	3
2-Chlorotoluene	ug/L (ppb)	50	95	97	85-109	2
4-Chlorotoluene	ug/L (ppb)	50	95	97	87-107	2
tert-Butylbenzene	ug/L (ppb)	50	99	101	86-110	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	99	102	87-109	3
sec-Butylbenzene	ug/L (ppb)	50	99	101	88-110	2
p-Isopropyltoluene	ug/L (ppb)	50	100	101	87-112	1
1,3-Dichlorobenzene	ug/L (ppb)	50	95	97	88-105	2
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	87-104	3
1,2-Dichlorobenzene	ug/L (ppb)	50	96	98	86-107	2
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	102	106	65-126	4
1,2,4-Trichlorobenzene	ug/L (ppb)	50	94	96	86-109	2
Hexachlorobutadiene	ug/L (ppb)	50	101	101	78-116	0
Naphthalene	ug/L (ppb)	50	103	108	89-114	5
1,2,3-Trichlorobenzene	ug/L (ppb)	50	102	108	89-111	6

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209044

SAMPLE CHAIN OF CUSTODY

ME 09/05/12

V3

Page # 1 of 1

Send Report To Chuck Cacek, Brian Dixon

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 200

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Alsco Property (700 Dexter) 0797-001-02

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
X Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
X Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	Full VOCs by 8260C	RCRA-8 Metals			Notes
MW103 - 20120905	MW103	108.5	01 A-D	9/5/12	1046	H_2O	4					X				
MW105 - 20120905	MW105	135	02		1507							X				
MW106 - 20120905	MW106	135	03		1218							X				
WMW02 - 20120905	WMW02	75	04		0946							X				
RMW1 - 20120905	RMW1	12	05 A-C		1157							X				
RMW5 - 20120905	RMW5	25	06		1350							X				
RMW6 - 20120905	RMW6	21	07		1052							X				
BB8 - 20120905	BB8	35	08		1506							X				
MW102 - 20120905	MW102	120	09		1353							X				
MW 99 - 20120905		108.5	10		1049							X				
					WBC											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Will Camarda	SES	9/5/12	1550
Received by:		VINA	FBI	9/5/12	1555
Relinquished by:					
Received by:			Samples received at		7 °C

FORMS\COC\SESGEMSR1.DOC (Revision 1)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

September 19, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on September 6, 2012 from the SOU_0797-001-02_20120906, F&BI 209058 project. There are 23 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0919R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 6, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-02_20120906, F&BI 209058 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
209058-01	W-MW01-20120906
209058-02	W-MW03-20120906
209058-03	G-MW1-20120906
209058-04	G-MW3-20120906
209058-05	MW101-20120906
209058-06	W-MW-04-20120906
209058-07	MW104-20120906
209058-08	G-MW2-20120906
209058-09	MW98-20120906

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW01-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-01
Date Analyzed:	09/07/12	Data File:	090709.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	97	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	2.8	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	2.0	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.7	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW03-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-02
Date Analyzed:	09/07/12	Data File:	090710.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	96	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	13
Vinyl chloride	120	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	20	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	2.6	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW1-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-03
Date Analyzed:	09/07/12	Data File:	090711.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	20,000 ve
Vinyl chloride	35	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	56	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	1.1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	1.5	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	32	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	1,000 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	7.4	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW1-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-03 1/1000
Date Analyzed:	09/10/12	Data File:	091027.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000	Tetrachloroethene	66,000
Vinyl chloride	<200 pr	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	<1,000	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	1,100	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW3-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-04
Date Analyzed:	09/08/12	Data File:	090733.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	13,000 ve
Vinyl chloride	280 ve	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	9.3	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	5.9	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	1,600 ve	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	1,100 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.5	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW3-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-04 1/1000
Date Analyzed:	09/10/12	Data File:	091028.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000	Tetrachloroethene	31,000
Vinyl chloride	290	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	1,600	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	1,200	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW101-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-05
Date Analyzed:	09/10/12	Data File:	091022.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	1.4	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-04-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-06
Date Analyzed:	09/08/12	Data File:	090735.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	430 ve
Vinyl chloride	530 ve	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	8.1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	4.0	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	1,800 ve	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	420 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	W-MW-04-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-06 1/100
Date Analyzed:	09/10/12	Data File:	091031.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<100	1,3-Dichloropropane	<100
Chloromethane	<1,000	Tetrachloroethene	460
Vinyl chloride	630	Dibromochloromethane	<100
Bromomethane	<100	1,2-Dibromoethane (EDB)	<100
Chloroethane	<100	Chlorobenzene	<100
Trichlorofluoromethane	<100	Ethylbenzene	<100
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<100
1,1-Dichloroethene	<100	m,p-Xylene	<200
Methylene chloride	<500	o-Xylene	<100
Methyl t-butyl ether (MTBE)	<100	Styrene	<100
trans-1,2-Dichloroethene	<100	Isopropylbenzene	<100
1,1-Dichloroethane	<100	Bromoform	<100
2,2-Dichloropropane	<100	n-Propylbenzene	<100
cis-1,2-Dichloroethene	1,900	Bromobenzene	<100
Chloroform	<100	1,3,5-Trimethylbenzene	<100
2-Butanone (MEK)	<1,000	1,1,2,2-Tetrachloroethane	<100
1,2-Dichloroethane (EDC)	<100	1,2,3-Trichloropropane	<100
1,1,1-Trichloroethane	<100	2-Chlorotoluene	<100
1,1-Dichloropropene	<100	4-Chlorotoluene	<100
Carbon tetrachloride	<100	tert-Butylbenzene	<100
Benzene	<35	1,2,4-Trimethylbenzene	<100
Trichloroethene	440	sec-Butylbenzene	<100
1,2-Dichloropropane	<100	p-Isopropyltoluene	<100
Bromodichloromethane	<100	1,3-Dichlorobenzene	<100
Dibromomethane	<100	1,4-Dichlorobenzene	<100
4-Methyl-2-pentanone	<1,000	1,2-Dichlorobenzene	<100
cis-1,3-Dichloropropene	<100	1,2-Dibromo-3-chloropropane	<1,000
Toluene	<100	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<100	Hexachlorobutadiene	<100
1,1,2-Trichloroethane	<100	Naphthalene	<100
2-Hexanone	<1,000	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW104-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-07
Date Analyzed:	09/10/12	Data File:	091023.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW2-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-08
Date Analyzed:	09/08/12	Data File:	090737.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	111	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	31,000 ve
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	1.1
Acetone	53	1,1,1,2-Tetrachloroethane	6.5
1,1-Dichloroethene	1.5	m,p-Xylene	2.6
Methylene chloride	<5	o-Xylene	2.1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	1.4	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	300 ve	Bromobenzene	<1
Chloroform	2.8	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	5.7	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	2.4
Trichloroethene	340 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	12	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW2-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-08 1/100
Date Analyzed:	09/11/12	Data File:	091128.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<100	1,3-Dichloropropane	<100
Chloromethane	<1,000	Tetrachloroethene	160,000 ve
Vinyl chloride	<20	Dibromochloromethane	<100
Bromomethane	<100	1,2-Dibromoethane (EDB)	<100
Chloroethane	<100	Chlorobenzene	<100
Trichlorofluoromethane	<100	Ethylbenzene	<100
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<100
1,1-Dichloroethene	<100	m,p-Xylene	<200
Methylene chloride	<500	o-Xylene	<100
Methyl t-butyl ether (MTBE)	<100	Styrene	<100
trans-1,2-Dichloroethene	<100	Isopropylbenzene	<100
1,1-Dichloroethane	<100	Bromoform	<100
2,2-Dichloropropane	<100	n-Propylbenzene	<100
cis-1,2-Dichloroethene	260	Bromobenzene	<100
Chloroform	<100	1,3,5-Trimethylbenzene	<100
2-Butanone (MEK)	<1,000	1,1,2,2-Tetrachloroethane	<100
1,2-Dichloroethane (EDC)	<100	1,2,3-Trichloropropane	<100
1,1,1-Trichloroethane	<100	2-Chlorotoluene	<100
1,1-Dichloropropene	<100	4-Chlorotoluene	<100
Carbon tetrachloride	<100	tert-Butylbenzene	<100
Benzene	<35	1,2,4-Trimethylbenzene	<100
Trichloroethene	320	sec-Butylbenzene	<100
1,2-Dichloropropane	<100	p-Isopropyltoluene	<100
Bromodichloromethane	<100	1,3-Dichlorobenzene	<100
Dibromomethane	<100	1,4-Dichlorobenzene	<100
4-Methyl-2-pentanone	<1,000	1,2-Dichlorobenzene	<100
cis-1,3-Dichloropropene	<100	1,2-Dibromo-3-chloropropane	<1,000
Toluene	<100	1,2,4-Trichlorobenzene	<100
trans-1,3-Dichloropropene	<100	Hexachlorobutadiene	<100
1,1,2-Trichloroethane	<100	Naphthalene	<100
2-Hexanone	<1,000	1,2,3-Trichlorobenzene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	G-MW2-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-08 1/1000
Date Analyzed:	09/10/12	Data File:	091029.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000	Tetrachloroethene	150,000
Vinyl chloride	<200	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	<1,000	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	<1,000	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW98-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	209058-09
Date Analyzed:	09/08/12	Data File:	090738.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	113	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	21,000 ve
Vinyl chloride	33	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	57	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	1.0
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	1.4	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	30	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	1,000 ve	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	7.6	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW98-20120906	Client:	SoundEarth Strategies
Date Received:	09/06/12	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	209058-09 1/1000
Date Analyzed:	09/10/12	Data File:	091030.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1,000	1,3-Dichloropropane	<1,000
Chloromethane	<10,000	Tetrachloroethene	64,000
Vinyl chloride	<200	Dibromochloromethane	<1,000
Bromomethane	<1,000	1,2-Dibromoethane (EDB)	<1,000
Chloroethane	<1,000	Chlorobenzene	<1,000
Trichlorofluoromethane	<1,000	Ethylbenzene	<1,000
Acetone	<10,000	1,1,1,2-Tetrachloroethane	<1,000
1,1-Dichloroethene	<1,000	m,p-Xylene	<2,000
Methylene chloride	<5,000	o-Xylene	<1,000
Methyl t-butyl ether (MTBE)	<1,000	Styrene	<1,000
trans-1,2-Dichloroethene	<1,000	Isopropylbenzene	<1,000
1,1-Dichloroethane	<1,000	Bromoform	<1,000
2,2-Dichloropropane	<1,000	n-Propylbenzene	<1,000
cis-1,2-Dichloroethene	<1,000	Bromobenzene	<1,000
Chloroform	<1,000	1,3,5-Trimethylbenzene	<1,000
2-Butanone (MEK)	<10,000	1,1,2,2-Tetrachloroethane	<1,000
1,2-Dichloroethane (EDC)	<1,000	1,2,3-Trichloropropane	<1,000
1,1,1-Trichloroethane	<1,000	2-Chlorotoluene	<1,000
1,1-Dichloropropene	<1,000	4-Chlorotoluene	<1,000
Carbon tetrachloride	<1,000	tert-Butylbenzene	<1,000
Benzene	<350	1,2,4-Trimethylbenzene	<1,000
Trichloroethene	1,100	sec-Butylbenzene	<1,000
1,2-Dichloropropane	<1,000	p-Isopropyltoluene	<1,000
Bromodichloromethane	<1,000	1,3-Dichlorobenzene	<1,000
Dibromomethane	<1,000	1,4-Dichlorobenzene	<1,000
4-Methyl-2-pentanone	<10,000	1,2-Dichlorobenzene	<1,000
cis-1,3-Dichloropropene	<1,000	1,2-Dibromo-3-chloropropane	<10,000
Toluene	<1,000	1,2,4-Trichlorobenzene	<1,000
trans-1,3-Dichloropropene	<1,000	Hexachlorobutadiene	<1,000
1,1,2-Trichloroethane	<1,000	Naphthalene	<1,000
2-Hexanone	<10,000	1,2,3-Trichlorobenzene	<1,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/07/12	Lab ID:	02-1591 mb
Date Analyzed:	09/07/12	Data File:	090708.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	96	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20120906, F&BI 209058
Date Extracted:	09/10/12	Lab ID:	02-1613 mb
Date Analyzed:	09/10/12	Data File:	091020.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<10	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Methylene chloride	<5	o-Xylene	<1
Methyl t-butyl ether (MTBE)	<1	Styrene	<1
trans-1,2-Dichloroethene	<1	Isopropylbenzene	<1
1,1-Dichloroethane	<1	Bromoform	<1
2,2-Dichloropropane	<1	n-Propylbenzene	<1
cis-1,2-Dichloroethene	<1	Bromobenzene	<1
Chloroform	<1	1,3,5-Trimethylbenzene	<1
2-Butanone (MEK)	<10	1,1,2,2-Tetrachloroethane	<1
1,2-Dichloroethane (EDC)	<1	1,2,3-Trichloropropane	<1
1,1,1-Trichloroethane	<1	2-Chlorotoluene	<1
1,1-Dichloropropene	<1	4-Chlorotoluene	<1
Carbon tetrachloride	<1	tert-Butylbenzene	<1
Benzene	<0.35	1,2,4-Trimethylbenzene	<1
Trichloroethene	<1	sec-Butylbenzene	<1
1,2-Dichloropropane	<1	p-Isopropyltoluene	<1
Bromodichloromethane	<1	1,3-Dichlorobenzene	<1
Dibromomethane	<1	1,4-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dichlorobenzene	<1
cis-1,3-Dichloropropene	<1	1,2-Dibromo-3-chloropropane	<10
Toluene	<1	1,2,4-Trichlorobenzene	<1
trans-1,3-Dichloropropene	<1	Hexachlorobutadiene	<1
1,1,2-Trichloroethane	<1	Naphthalene	<1
2-Hexanone	<10	1,2,3-Trichlorobenzene	<1

Date of Report: 09/19/12
Date Received: 09/06/12
Project: SOU_0797-001-02_20120906, F&BI 209058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 209058-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	90	10-172
Chloromethane	ug/L (ppb)	50	<10	82	25-166
Vinyl chloride	ug/L (ppb)	50	2.8	93	36-166
Bromomethane	ug/L (ppb)	50	<1	90	47-169
Chloroethane	ug/L (ppb)	50	<1	94	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	98	44-165
Acetone	ug/L (ppb)	250	<10	87	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	96	60-136
Methylene chloride	ug/L (ppb)	50	<5	90	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	94	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	97	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	98	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	2.0	98	71-127
Chloroform	ug/L (ppb)	50	<1	95	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	98	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	100	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	99	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	100	56-152
Benzene	ug/L (ppb)	50	<0.35	96	76-125
Trichloroethene	ug/L (ppb)	50	<1	93	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	96	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	101	61-150
Dibromomethane	ug/L (ppb)	50	<1	97	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	106	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	97	72-132
Toluene	ug/L (ppb)	50	1.7	95	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	102	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	94	68-131
2-Hexanone	ug/L (ppb)	250	<10	104	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	367 vo	73-129
Dibromochloromethane	ug/L (ppb)	50	<1	108	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	96	69-134
Chlorobenzene	ug/L (ppb)	50	<1	95	77-122
Ethylbenzene	ug/L (ppb)	50	<1	99	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	97	73-137
m,p-Xylene	ug/L (ppb)	100	<2	100	69-135
o-Xylene	ug/L (ppb)	50	<1	105	68-137
Styrene	ug/L (ppb)	50	<1	105	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	103	65-142
Bromoform	ug/L (ppb)	50	<1	108	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	98	58-144
Bromobenzene	ug/L (ppb)	50	<1	96	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	100	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	100	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	92	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	96	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	99	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	101	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	100	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	98	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	102	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	96	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	94	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	95	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	105	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	102	76-132
Hexachlorobutadiene	ug/L (ppb)	50	<1	90	60-143
Naphthalene	ug/L (ppb)	50	<1	105	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	102	69-148

Date of Report: 09/19/12
Date Received: 09/06/12
Project: SOU_0797-001-02_20120906, F&BI 209058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	92	93	25-158	1
Chloromethane	ug/L (ppb)	50	88	89	45-156	1
Vinyl chloride	ug/L (ppb)	50	96	101	50-154	5
Bromomethane	ug/L (ppb)	50	90	93	55-143	3
Chloroethane	ug/L (ppb)	50	89	98	58-146	10
Trichlorofluoromethane	ug/L (ppb)	50	97	101	50-150	4
Acetone	ug/L (ppb)	250	93	99	60-155	6
1,1-Dichloroethene	ug/L (ppb)	50	95	99	67-136	4
Methylene chloride	ug/L (ppb)	50	94	90	39-148	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	100	102	64-147	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	100	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	96	100	79-121	4
2,2-Dichloropropane	ug/L (ppb)	50	103	106	55-143	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	105	80-123	5
Chloroform	ug/L (ppb)	50	97	99	80-121	2
2-Butanone (MEK)	ug/L (ppb)	250	104	106	57-149	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	98	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	97	101	83-130	4
1,1-Dichloropropene	ug/L (ppb)	50	102	106	77-129	4
Carbon tetrachloride	ug/L (ppb)	50	103	105	75-158	2
Benzene	ug/L (ppb)	50	97	101	69-134	4
Trichloroethene	ug/L (ppb)	50	94	97	80-120	3
1,2-Dichloropropane	ug/L (ppb)	50	98	102	77-123	4
Bromodichloromethane	ug/L (ppb)	50	99	102	81-133	3
Dibromomethane	ug/L (ppb)	50	97	101	82-125	4
4-Methyl-2-pentanone	ug/L (ppb)	250	106	112	70-140	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	108	109	82-132	1
Toluene	ug/L (ppb)	50	97	102	72-122	5
trans-1,3-Dichloropropene	ug/L (ppb)	50	111	111	80-136	0
1,1,2-Trichloroethane	ug/L (ppb)	50	96	101	75-124	5
2-Hexanone	ug/L (ppb)	250	106	112	64-152	6
1,3-Dichloropropane	ug/L (ppb)	50	98	102	76-126	4
Tetrachloroethene	ug/L (ppb)	50	97	100	76-121	3
Dibromochloromethane	ug/L (ppb)	50	105	106	84-133	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	100	103	82-125	3
Chlorobenzene	ug/L (ppb)	50	96	100	83-114	4
Ethylbenzene	ug/L (ppb)	50	99	105	77-124	6
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	98	102	84-127	4
m,p-Xylene	ug/L (ppb)	100	102	106	83-125	4
o-Xylene	ug/L (ppb)	50	107	111	86-121	4
Styrene	ug/L (ppb)	50	106	110	85-127	4
Isopropylbenzene	ug/L (ppb)	50	106	109	87-122	3
Bromoform	ug/L (ppb)	50	102	99	74-136	3
n-Propylbenzene	ug/L (ppb)	50	101	106	74-126	5
Bromobenzene	ug/L (ppb)	50	97	104	80-121	7
1,3,5-Trimethylbenzene	ug/L (ppb)	50	103	107	80-126	4
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	99	105	66-126	6
1,2,3-Trichloropropane	ug/L (ppb)	50	93	100	67-124	7
2-Chlorotoluene	ug/L (ppb)	50	99	104	77-127	5
4-Chlorotoluene	ug/L (ppb)	50	102	106	78-128	4
tert-Butylbenzene	ug/L (ppb)	50	104	109	85-127	5
1,2,4-Trimethylbenzene	ug/L (ppb)	50	103	108	82-125	5
sec-Butylbenzene	ug/L (ppb)	50	102	107	80-125	5
p-Isopropyltoluene	ug/L (ppb)	50	105	108	82-127	3
1,3-Dichlorobenzene	ug/L (ppb)	50	98	103	85-116	5
1,4-Dichlorobenzene	ug/L (ppb)	50	96	101	84-121	5
1,2-Dichlorobenzene	ug/L (ppb)	50	98	102	85-116	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	107	106	57-141	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	107	111	72-130	4
Hexachlorobutadiene	ug/L (ppb)	50	94	101	53-141	7
Naphthalene	ug/L (ppb)	50	109	115	64-133	5
1,2,3-Trichlorobenzene	ug/L (ppb)	50	102	109	65-136	7

Date of Report: 09/19/12
Date Received: 09/06/12
Project: SOU_0797-001-02_20120906, F&BI 209058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 209075-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<10	117	62-131
Chloromethane	ug/L (ppb)	50	<10	103	68-127
Vinyl chloride	ug/L (ppb)	50	1.6	114	76-124
Bromomethane	ug/L (ppb)	50	<1	99	67-127
Chloroethane	ug/L (ppb)	50	<1	103	69-123
Trichlorofluoromethane	ug/L (ppb)	50	<1	105	75-121
Acetone	ug/L (ppb)	250	<10	86	68-137
1,1-Dichloroethene	ug/L (ppb)	50	<1	96	75-118
Methylene chloride	ug/L (ppb)	50	<5	90	64-120
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	97	74-120
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	75-119
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	82-109
2,2-Dichloropropane	ug/L (ppb)	50	<1	95	62-124
cis-1,2-Dichloroethene	ug/L (ppb)	50	6.1	97	83-109
Chloroform	ug/L (ppb)	50	<1	96	81-110
2-Butanone (MEK)	ug/L (ppb)	250	<10	89	75-122
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	76-114
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	99	77-116
1,1-Dichloropropene	ug/L (ppb)	50	<1	96	81-110
Carbon tetrachloride	ug/L (ppb)	50	<1	100	74-119
Benzene	ug/L (ppb)	50	0.73	97	79-108
Trichloroethene	ug/L (ppb)	50	4.1	93	79-105
1,2-Dichloropropane	ug/L (ppb)	50	<1	99	83-110
Bromodichloromethane	ug/L (ppb)	50	<1	100	77-118
Dibromomethane	ug/L (ppb)	50	<1	96	82-109
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	94	78-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	104	76-120
Toluene	ug/L (ppb)	50	<1	96	82-108
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	77-118
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	98	83-110
2-Hexanone	ug/L (ppb)	250	<10	94	75-128
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	84-109
Tetrachloroethene	ug/L (ppb)	50	22	97 b	69-114
Dibromochloromethane	ug/L (ppb)	50	<1	101	66-133
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	98	85-110
Chlorobenzene	ug/L (ppb)	50	<1	94	82-107
Ethylbenzene	ug/L (ppb)	50	<1	95	79-112
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	98	78-118
m,p-Xylene	ug/L (ppb)	100	<2	94	81-111
o-Xylene	ug/L (ppb)	50	<1	94	82-110
Styrene	ug/L (ppb)	50	<1	92	73-116
Isopropylbenzene	ug/L (ppb)	50	<1	98	80-112
Bromoform	ug/L (ppb)	50	<1	93	45-151
n-Propylbenzene	ug/L (ppb)	50	<1	95	77-116
Bromobenzene	ug/L (ppb)	50	<1	93	84-110
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	94	78-114
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	104	82-117
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	95	77-116
2-Chlorotoluene	ug/L (ppb)	50	<1	94	79-112
4-Chlorotoluene	ug/L (ppb)	50	<1	93	80-112
tert-Butylbenzene	ug/L (ppb)	50	<1	96	81-114
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	94	76-115
sec-Butylbenzene	ug/L (ppb)	50	<1	96	80-115
p-Isopropyltoluene	ug/L (ppb)	50	<1	96	78-116
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	93	81-110
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	92	79-109
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	94	81-110
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	102	67-128
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	88	77-113
Hexachlorobutadiene	ug/L (ppb)	50	<1	94	66-122
Naphthalene	ug/L (ppb)	50	<1	97	79-120
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	97	78-115

Date of Report: 09/19/12
Date Received: 09/06/12
Project: SOU_0797-001-02_20120906, F&BI 209058

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	111	119	56-138	7
Chloromethane	ug/L (ppb)	50	102	103	66-131	1
Vinyl chloride	ug/L (ppb)	50	113	114	73-126	1
Bromomethane	ug/L (ppb)	50	100	102	65-131	2
Chloroethane	ug/L (ppb)	50	104	107	69-125	3
Trichlorofluoromethane	ug/L (ppb)	50	104	106	75-124	2
Acetone	ug/L (ppb)	250	81	83	64-136	2
1,1-Dichloroethene	ug/L (ppb)	50	97	99	72-122	2
Methylene chloride	ug/L (ppb)	50	90	93	56-128	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	98	100	76-120	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	94	98	74-122	4
1,1-Dichloroethane	ug/L (ppb)	50	97	99	85-107	2
2,2-Dichloropropane	ug/L (ppb)	50	105	108	83-119	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	85-105	1
Chloroform	ug/L (ppb)	50	95	97	83-107	2
2-Butanone (MEK)	ug/L (ppb)	250	85	87	75-118	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	93	85-107	1
1,1,1-Trichloroethane	ug/L (ppb)	50	98	101	81-114	3
1,1-Dichloropropene	ug/L (ppb)	50	95	97	85-107	2
Carbon tetrachloride	ug/L (ppb)	50	100	103	77-118	3
Benzene	ug/L (ppb)	50	95	97	81-107	2
Trichloroethene	ug/L (ppb)	50	94	97	80-104	3
1,2-Dichloropropane	ug/L (ppb)	50	97	99	86-106	2
Bromodichloromethane	ug/L (ppb)	50	101	102	76-117	1
Dibromomethane	ug/L (ppb)	50	95	98	86-106	3
4-Methyl-2-pentanone	ug/L (ppb)	250	92	96	85-113	4
cis-1,3-Dichloropropene	ug/L (ppb)	50	112	114	78-120	2
Toluene	ug/L (ppb)	50	95	96	86-105	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	110	112	82-116	2
1,1,2-Trichloroethane	ug/L (ppb)	50	97	98	87-106	1
2-Hexanone	ug/L (ppb)	250	90	91	84-117	1
1,3-Dichloropropane	ug/L (ppb)	50	97	98	86-107	1
Tetrachloroethene	ug/L (ppb)	50	97	97	81-106	0
Dibromochloromethane	ug/L (ppb)	50	107	109	57-138	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	98	101	89-107	3
Chlorobenzene	ug/L (ppb)	50	94	96	86-104	2
Ethylbenzene	ug/L (ppb)	50	96	97	87-107	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	98	100	79-117	2
m,p-Xylene	ug/L (ppb)	100	97	98	87-107	1
o-Xylene	ug/L (ppb)	50	96	98	86-107	2
Styrene	ug/L (ppb)	50	102	103	87-110	1
Isopropylbenzene	ug/L (ppb)	50	99	101	87-108	2
Bromoform	ug/L (ppb)	50	107	107	27-167	0
n-Propylbenzene	ug/L (ppb)	50	97	99	87-109	2
Bromobenzene	ug/L (ppb)	50	96	97	86-108	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	103	88-108	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	103	104	82-116	1
1,2,3-Trichloropropane	ug/L (ppb)	50	94	97	75-117	3
2-Chlorotoluene	ug/L (ppb)	50	95	97	85-109	2
4-Chlorotoluene	ug/L (ppb)	50	95	97	87-107	2
tert-Butylbenzene	ug/L (ppb)	50	99	101	86-110	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	99	102	87-109	3
sec-Butylbenzene	ug/L (ppb)	50	99	101	88-110	2
p-Isopropyltoluene	ug/L (ppb)	50	100	101	87-112	1
1,3-Dichlorobenzene	ug/L (ppb)	50	95	97	88-105	2
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	87-104	3
1,2-Dichlorobenzene	ug/L (ppb)	50	96	98	86-107	2
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	102	106	65-126	4
1,2,4-Trichlorobenzene	ug/L (ppb)	50	94	96	86-109	2
Hexachlorobutadiene	ug/L (ppb)	50	101	101	78-116	0
Naphthalene	ug/L (ppb)	50	103	108	89-114	5
1,2,3-Trichlorobenzene	ug/L (ppb)	50	102	108	89-111	6

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

209058

SAMPLE CHAIN OF CUSTODY ME 09-06-12 V2

Page # 1 of 1

Send Report To Chuck Cacek, Brian Dixon

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 200

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO.: Alsco Property (700 Dexter) 0797-001-02

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
X Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
X Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	Full VOC's, cVOC's by 8260C	RCRA-8 Metals			Notes
MW01-20120906	W-MW-01	75	01 A-D	09/06/12	0922	H2O	4					X				
MW03-20120906	W-MW-03	69	02		1048							X				
GMW1-20120906	G-MW1	32.5	03		1247							X				
GMW3-20120906	G-MW3	31	04		1150							X				
~~MW101~~ MW101-20120906	MW101	110	05		1105							X				
W-MW-04-20120906	W-MW-04	80	06		1218							X				
MW104-20120906	MW104	124	07		0941							X				
G-MW3-20120906	G-MW3	13	08		1327							X				
MW98-20120906	MW98	32.5	09		1308							X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	WILL CAMARDA	SES	9/6/12	
Received by:	DAVID	F+BZ	11	14.85
Relinquished by:				
Received by:				

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
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Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 14, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 7, 2012 from the SOU_0797_20121207, F&BI 212137 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1214R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 7, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121207, F&BI 212137 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212137-01	MW116-20121207

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW116-20121207	Client:	SoundEarth Strategies
Date Received:	12/07/12	Project:	SOU_0797_20121207, F&BI 212137
Date Extracted:	12/10/12	Lab ID:	212137-01
Date Analyzed:	12/10/12	Data File:	121010.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	6.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121207, F&BI 212137
Date Extracted:	12/10/12	Lab ID:	02-2243 mb
Date Analyzed:	12/10/12	Data File:	121007.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 12/14/12
Date Received: 12/07/12
Project: SOU_0797_20121207, F&BI 212137

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212125-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	36-166
Chloroethane	ug/L (ppb)	50	<1	97	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	100	60-136
Methylene chloride	ug/L (ppb)	50	<5	92	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	97	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	96	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	99	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	106	60-146
Trichloroethene	ug/L (ppb)	50	<1	96	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	101	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	103	50-154	0
Chloroethane	ug/L (ppb)	50	98	99	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	95	95	67-136	0
Methylene chloride	ug/L (ppb)	50	90	87	39-148	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	97	98	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	100	99	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	101	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	107	106	83-130	1
Trichloroethene	ug/L (ppb)	50	97	97	80-120	0
Tetrachloroethene	ug/L (ppb)	50	100	100	76-121	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212137

SAMPLE CHAIN OF CUSTODY ME 12-07-12

Send Report To Chuck Carrick

Company SES

Address 2811 Fairview Ave E Ste 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 24hr. perc 12/7/12
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Chlorinated Solvents		Notes
MW116-20121207	MW116	~	01A-D	12-7-12	1230	Water	4							X		X-perc 12/7/12 MK; Hold

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Kurt A Hindberg	SES	12-7-12	1440
Received by:	Nhan Phan	FEBI	12/7/12	1440
Relinquished by:				
Received by:				

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 18, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 13, 2012 from the SOU_0797_20121213, F&BI 212233 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU1218R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 13, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121213, F&BI 212233 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212233-01	MW115-20121213

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW115-20121213	Client:	SoundEarth Strategies
Date Received:	12/13/12	Project:	SOU_0797_20121213, F&BI 212233
Date Extracted:	12/13/12	Lab ID:	212233-01
Date Analyzed:	12/13/12	Data File:	121319.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.6
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	3.0
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1.1
Tetrachloroethene	15

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20121213, F&BI 212233
Date Extracted:	12/13/12	Lab ID:	02-2252 mb
Date Analyzed:	12/13/12	Data File:	121308.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 12/18/12
Date Received: 12/13/12
Project: SOU_0797_20121213, F&BI 212233

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212233-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	97	73-131
Chloroethane	ug/L (ppb)	50	<1	86	70-127
1,1-Dichloroethene	ug/L (ppb)	50	<1	96	74-123
Methylene chloride	ug/L (ppb)	50	<5	84	62-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	74-123
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	82-110
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	75-117
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	100	79-117
Trichloroethene	ug/L (ppb)	50	<1	97	78-108
Tetrachloroethene	ug/L (ppb)	50	<1	97	70-115

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	92	92	73-132	0
Chloroethane	ug/L (ppb)	50	83	85	72-125	2
1,1-Dichloroethene	ug/L (ppb)	50	93	94	75-119	1
Methylene chloride	ug/L (ppb)	50	78	79	71-112	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	95	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	94	96	82-110	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	97	83-110	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	94	80-110	2
1,1,1-Trichloroethane	ug/L (ppb)	50	98	98	80-116	0
Trichloroethene	ug/L (ppb)	50	93	93	77-108	0
Tetrachloroethene	ug/L (ppb)	50	97	96	81-109	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

212233

SAMPLE CHAIN OF CUSTODY ME 12/13/12

Page # 1 of 1

Send Report To Chuck Cucek

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24h TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	cVOC's		Notes
MW115-20121213	MW115	—	01A-D	12-13-12	1315	water	4							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mandel	SES	12/13/12	1345
Received by:		Nhan Phan	FEBI	12/13/12	1345
Relinquished by:					
Received by:			Samples received at 5 °C		

FORMS\COC\SESGEMSR1.DOC (Revision 1)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 8, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included is the amended report from the testing of material submitted on December 21, 2012 from the SOU_0797_20121221, F&BI 212393 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon, Audrey Hackett
SOU1228R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

December 28, 2012

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on December 21, 2012 from the SOU_0797_20121221, F&BI 212393 project. There are 29 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU1228R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 21, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20121221, F&BI 212393 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
212393-01	MW116-20121221
212393-02	MW112-20121221
212393-03	MW113-20121221
212393-04	MW108-20121221
212393-05	MW115-20121221
212393-06	MW109-20121221
212393-07	MW114-20121221
212393-08	MW107-20121221
212393-09	MW110-20121221
212393-10	MW99-20121221
212393-11	MW111-20121221

The tetrachloroethene detection in sample MW113-20121221 is due to carryover from a previous sample. The data were flagged accordingly.

Methylene chloride was detected in the 8260C analysis of sample MW111-20121221. The data were flagged as due to laboratory contamination.

The NWTPH-Gx result in sample MW107-20121221 is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis.

All other quality control requirements were acceptable.

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393
Date Extracted: 12/26/12
Date Analyzed: 12/26/12

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW107-20121221 212393-08 1/10	240,000 x	91
Method Blank 02-2366 MB	<100	91

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393
Date Extracted: 12/26/12
Date Analyzed: 12/26/12

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
MW107-20121221 212393-08	190 x	<250	106
Method Blank 02-2379 MB	<50	<250	87

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW116-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-01
Date Analyzed:	12/24/12	Data File:	122409.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	2.7

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW112-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-02
Date Analyzed:	12/24/12	Data File:	122410.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW113-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-03
Date Analyzed:	12/24/12	Data File:	122434.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	160 ve
Chloroethane	<1
1,1-Dichloroethene	3.7
Methylene chloride	<5
trans-1,2-Dichloroethene	4.1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	5,100 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	460 ve
Tetrachloroethene	1.3 c

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW113-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-03 1/100
Date Analyzed:	12/26/12	Data File:	122614.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	150
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	5,500
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	440
Tetrachloroethene	<100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW108-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/26/12	Lab ID:	212393-04
Date Analyzed:	12/26/12	Data File:	122610.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	220 ve
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	2.1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	390 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1.8
Tetrachloroethene	3.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW108-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/26/12	Lab ID:	212393-04 1/10
Date Analyzed:	12/26/12	Data File:	122609.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	210 pr
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	400
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	<10
Tetrachloroethene	<10

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW115-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/26/12	Lab ID:	212393-05
Date Analyzed:	12/26/12	Data File:	122608.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	16
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	38
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	3.0
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW109-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-06
Date Analyzed:	12/24/12	Data File:	122417.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.5
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	18
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	64
Tetrachloroethene	91

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW114-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-07
Date Analyzed:	12/24/12	Data File:	122421.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	110	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	14
Chloroethane	<1
1,1-Dichloroethene	3.0
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	270 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	290 ve
Tetrachloroethene	1,200 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW114-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-07 1/100
Date Analyzed:	12/26/12	Data File:	122610.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	107	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	260
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	290
Tetrachloroethene	1,400

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW107-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-08 1/10
Date Analyzed:	12/24/12	Data File:	122422.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	111	50	150

Compounds:	Concentration ug/L (ppb)
Benzene	<3.5
Toluene	<10
Ethylbenzene	<10
m,p-Xylene	<20
o-Xylene	<10
Vinyl chloride	200
Chloroethane	<10
1,1-Dichloroethene	15
Methylene chloride	<50
trans-1,2-Dichloroethene	41
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	5,300 ve
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	2,900 ve
Tetrachloroethene	34,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW107-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-08 1/1000
Date Analyzed:	12/26/12	Data File:	122612.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	109	50	150

Compounds:	Concentration ug/L (ppb)
Benzene	<350
Toluene	<1,000
Ethylbenzene	<1,000
m,p-Xylene	<2,000
o-Xylene	<1,000
Vinyl chloride	210
Chloroethane	<1,000
1,1-Dichloroethene	<1,000
Methylene chloride	<5,000
trans-1,2-Dichloroethene	<1,000
1,1-Dichloroethane	<1,000
cis-1,2-Dichloroethene	5,100
1,2-Dichloroethane (EDC)	<1,000
1,1,1-Trichloroethane	<1,000
Trichloroethene	2,800
Tetrachloroethene	47,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW110-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-09
Date Analyzed:	12/24/12	Data File:	122431.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	33
Chloroethane	<1
1,1-Dichloroethene	1.7
Methylene chloride	<5
trans-1,2-Dichloroethene	3.0
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	500 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	220 ve
Tetrachloroethene	1,300 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW110-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-09 1/100
Date Analyzed:	12/26/12	Data File:	122613.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	37
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	470
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	220
Tetrachloroethene	1,100

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW99-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-10
Date Analyzed:	12/24/12	Data File:	122411.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	220 ve
Chloroethane	<1
1,1-Dichloroethene	16
Methylene chloride	<5
trans-1,2-Dichloroethene	44
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	4,100 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	2,700 ve
Tetrachloroethene	9,600 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW99-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-10 1/1000
Date Analyzed:	12/26/12	Data File:	122611.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	108	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	270
Chloroethane	<1,000
1,1-Dichloroethene	<1,000
Methylene chloride	<5,000
trans-1,2-Dichloroethene	<1,000
1,1-Dichloroethane	<1,000
cis-1,2-Dichloroethene	5,200
1,2-Dichloroethane (EDC)	<1,000
1,1,1-Trichloroethane	<1,000
Trichloroethene	3,000
Tetrachloroethene	50,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW111-20121221	Client:	SoundEarth Strategies
Date Received:	12/21/12	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	212393-11
Date Analyzed:	12/24/12	Data File:	122413.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	112	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.8
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	5.0 lc
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	37
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	32
Tetrachloroethene	110

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	02-2310 mb
Date Analyzed:	12/24/12	Data File:	122408.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/24/12	Lab ID:	02-2311 mb
Date Analyzed:	12/24/12	Data File:	122408.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20121221, F&BI 212393
Date Extracted:	12/25/12	Lab ID:	02-2312 mb
Date Analyzed:	12/26/12	Data File:	122607.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	ug/L (ppb)	1,000	97	99	70-119	2

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	110	111	58-134	1

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212393-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	118	50-150
Chloroethane	ug/L (ppb)	50	<1	107	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	101	50-150
Methylene chloride	ug/L (ppb)	50	<5	87	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	50-150
Benzene	ug/L (ppb)	50	<0.35	95	50-150
Trichloroethene	ug/L (ppb)	50	<1	94	50-150
Toluene	ug/L (ppb)	50	<1	95	50-150
Tetrachloroethene	ug/L (ppb)	50	2.7	115	50-150
Ethylbenzene	ug/L (ppb)	50	<1	98	50-150
m,p-Xylene	ug/L (ppb)	100	<2	98	50-150
o-Xylene	ug/L (ppb)	50	<1	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	104	109	70-130	5
Chloroethane	ug/L (ppb)	50	103	101	70-130	2
1,1-Dichloroethene	ug/L (ppb)	50	100	99	70-130	1
Methylene chloride	ug/L (ppb)	50	89	87	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	97	98	70-130	1
1,1-Dichloroethane	ug/L (ppb)	50	99	99	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	94	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	50	101	101	70-130	0
Benzene	ug/L (ppb)	50	96	96	70-130	0
Trichloroethene	ug/L (ppb)	50	93	93	70-130	0
Toluene	ug/L (ppb)	50	95	93	70-130	2
Tetrachloroethene	ug/L (ppb)	50	94	93	70-130	1
Ethylbenzene	ug/L (ppb)	50	99	97	70-130	2
m,p-Xylene	ug/L (ppb)	100	99	97	70-130	2
o-Xylene	ug/L (ppb)	50	99	97	70-130	2

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 212361-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	107	36-166
Chloroethane	ug/L (ppb)	50	<1	106	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	100	60-136
Methylene chloride	ug/L (ppb)	50	<5	95	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	102	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	98	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	98	60-146
Trichloroethene	ug/L (ppb)	50	<1	92	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	91	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	108	105	50-154	3
Chloroethane	ug/L (ppb)	50	94	95	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	100	99	67-136	1
Methylene chloride	ug/L (ppb)	50	96	95	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	100	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	101	99	79-121	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	98	80-123	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	96	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	101	101	83-130	0
Trichloroethene	ug/L (ppb)	50	95	95	80-120	0
Tetrachloroethene	ug/L (ppb)	50	97	97	76-121	0

Date of Report: 12/28/12
Date Received: 12/21/12
Project: SOU_0797_20121221, F&BI 212393

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	95	96	50-154	1
Chloroethane	ug/L (ppb)	50	101	99	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	96	95	67-136	1
Methylene chloride	ug/L (ppb)	50	91	93	39-148	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	96	98	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	97	98	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	96	97	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	95	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	99	99	83-130	0
Trichloroethene	ug/L (ppb)	50	92	92	80-120	0
Tetrachloroethene	ug/L (ppb)	50	94	93	76-121	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

February 12, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on February 8, 2013 from the SOU_0797-001-02_20130208, F&BI 302101 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0212R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on February 8, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001-02_20130208, F&BI 302101 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
302101 -01	MW117-20130208

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW117-20130208	Client:	SoundEarth Strategies
Date Received:	02/08/13	Project:	SOU_0797-001-02_20130208, F&BI 302101
Date Extracted:	02/08/13	Lab ID:	302101-01
Date Analyzed:	02/08/13	Data File:	020811.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	91	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001-02_20130208, F&BI 302101
Date Extracted:	02/08/13	Lab ID:	03-0131 MB
Date Analyzed:	02/08/13	Data File:	020810.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	91	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 02/12/13
Date Received: 02/08/13
Project: SOU_0797-001-02_20130208, F&BI 302101

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 302101-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	88	36-166
Chloroethane	ug/L (ppb)	50	<1	87	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	91	60-136
Methylene chloride	ug/L (ppb)	50	<5	79	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	88	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	86	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	87	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	85	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	90	60-146
Trichloroethene	ug/L (ppb)	50	<1	82	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	89	73-129

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	92	93	50-154	1
Chloroethane	ug/L (ppb)	50	90	92	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	92	94	67-136	2
Methylene chloride	ug/L (ppb)	50	81	82	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	89	90	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	88	89	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	89	90	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	87	87	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	93	94	83-130	1
Trichloroethene	ug/L (ppb)	50	83	84	80-120	1
Tetrachloroethene	ug/L (ppb)	50	91	93	76-121	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

302101

SAMPLE CHAIN OF CUSTODY

ME 2/8/13 V1 / AI3

Send Report To Chuck Cacek
Company SoundEarth Strategies Inc
Address 2811 Fairview Ave E #2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 0797-001-02 ALSCO Property
PO #
REMARKS

Page # ___ of ___

TURNAROUND TIME
☐ Standard (2 Weeks)
☒ RUSH 48 hr TAT
Rush charges authorized by:

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HVOCs by 8260 SIM				Notes
MW117-20130208	01A-E	2/8/13	1054	W	5							X				
		2/8/13														

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Andrea Lifegren	SES	2/8/13	1140
Received by:	James Bruya	F&B	2/8/13	1140
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

Samples received at 10 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 25, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 18, 2013 from the SOU_0797_20130318, F&BI 303244 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0325R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 18, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130318, F&BI 303244 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303244 -01	DB02_20130318
303244 -02	DB01_20130318

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB02_20130318	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130318, F&BI 303244
Date Extracted:	03/19/13	Lab ID:	303244-01
Date Analyzed:	03/19/13	Data File:	031918.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.35
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	14
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	19
Tetrachloroethene	140

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DB01_20130318	Client:	SoundEarth Strategies
Date Received:	03/18/13	Project:	SOU_0797_20130318, F&BI 303244
Date Extracted:	03/19/13	Lab ID:	303244-02
Date Analyzed:	03/19/13	Data File:	031919.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	2.4
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	1.4

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130318, F&BI 303244
Date Extracted:	03/19/13	Lab ID:	03-0400 mb
Date Analyzed:	03/19/13	Data File:	031908.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/25/13
Date Received: 03/18/13
Project: SOU_0797_20130318, F&BI 303244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303244-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	85	50-150
Chloroethane	ug/L (ppb)	50	<1	102	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	93	50-150
Methylene chloride	ug/L (ppb)	50	<5	95	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	89	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	2.4	94	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	93	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	96	50-150
Trichloroethene	ug/L (ppb)	50	<1	89	50-150
Tetrachloroethene	ug/L (ppb)	50	1.4	97	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	87	85	70-130	2
Chloroethane	ug/L (ppb)	50	105	103	70-130	2
1,1-Dichloroethene	ug/L (ppb)	50	94	94	70-130	0
Methylene chloride	ug/L (ppb)	50	102	98	70-130	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	91	70-130	0
1,1-Dichloroethane	ug/L (ppb)	50	92	92	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	94	94	70-130	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	50	100	97	70-130	3
Trichloroethene	ug/L (ppb)	50	89	87	70-130	2
Tetrachloroethene	ug/L (ppb)	50	91	92	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303244

SAMPLE CHAIN OF CUSTODY

ME 03/18/13

Page # 1 of 1 V2

Send Report To Chuck Cacak

Company Secor Earth Strategies

Address 2811 Fuhrman Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 Tax Depth

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH SM W
- Rush charges authorized by: CC

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	cVOCs	HVOCs	Notes
DB02_20130318	DB02															
20130318-B-2	B-2	—	01	3-18-13	1130	Water	4								X	
20130318-B-1	B-1	—	02	3-18-13	1150	Water	4								X	
	DB01															
DB01	DB02_20130318															

3/18/13

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Meade	SES	3/18/13	1710
Received by:	Jon Shuman	FBI	3/18/13	17:15
Relinquished by:				
Received by:				

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FBI DOC (Revised 1)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 21, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 19, 2013 from the SOU_0797_20130319, F&BI 303260 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0321R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 19, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130319, F&BI 303260 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303260 -01	20130319-DB09-40
303260 -02	20130319-DB09-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130319-DB09-40	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303260
Date Extracted:	03/19/13	Lab ID:	303260-01
Date Analyzed:	03/19/13	Data File:	031920.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	107	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	4.8
Chloroethane	<1
1,1-Dichloroethene	2.0
Methylene chloride	<5
trans-1,2-Dichloroethene	3.1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	660 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	380 ve
Tetrachloroethene	3,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130319-DB09-40	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303260
Date Extracted:	03/19/13	Lab ID:	303260-01 1/100
Date Analyzed:	03/20/13	Data File:	032009.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	700
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	400
Tetrachloroethene	5,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130319-DB09-70	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303260
Date Extracted:	03/19/13	Lab ID:	303260-02
Date Analyzed:	03/19/13	Data File:	031921.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.3
Chloroethane	<1
1,1-Dichloroethene	1.3
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	440 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	430 ve
Tetrachloroethene	1,500 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130319-DB09-70	Client:	SoundEarth Strategies
Date Received:	03/19/13	Project:	SOU_0797_20130319, F&BI 303260
Date Extracted:	03/19/13	Lab ID:	303260-02 1/100
Date Analyzed:	03/20/13	Data File:	032010.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	460
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	460
Tetrachloroethene	1,900

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130319, F&BI 303260
Date Extracted:	03/19/13	Lab ID:	03-0400 mb
Date Analyzed:	03/19/13	Data File:	031908.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/21/13
Date Received: 03/19/13
Project: SOU_0797_20130319, F&BI 303260

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303244-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	85	50-150
Chloroethane	ug/L (ppb)	50	<1	102	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	93	50-150
Methylene chloride	ug/L (ppb)	50	<5	95	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	89	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	94	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	2.4	94	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	93	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	96	50-150
Trichloroethene	ug/L (ppb)	50	<1	89	50-150
Tetrachloroethene	ug/L (ppb)	50	1.4	97	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	87	85	70-130	2
Chloroethane	ug/L (ppb)	50	105	103	70-130	2
1,1-Dichloroethene	ug/L (ppb)	50	94	94	70-130	0
Methylene chloride	ug/L (ppb)	50	102	98	70-130	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	91	70-130	0
1,1-Dichloroethane	ug/L (ppb)	50	92	92	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	94	94	70-130	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	50	100	97	70-130	3
Trichloroethene	ug/L (ppb)	50	89	87	70-130	2
Tetrachloroethene	ug/L (ppb)	50	91	92	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303260

SAMPLE CHAIN OF CUSTODY

ME 03/19/13 V2

Page # 1 of 1

Send Report To Chuck Cacek

Company Sound Earth Strategy

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 24hr TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	HVOC's		Notes
20130319-DB09-40	DB09	~~5~~ 40	01 A-F	3-19-13	1010	water	6							X		~~Hold~~
20130319-DB09-70	1	70	02 1	3-19-13	1245	water	6							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mandel	SES	3/19/13	1430
Received by:		HONG NGUYEN	FBI	V	V
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 8 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 25, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 21, 2013 from the SOU_0797_20130321, F&BI 303301 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0325R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 21, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130321, F&BI 303301 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303301 -01	20130321-DB08-60

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130321-DB08-60	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303301
Date Extracted:	03/21/13	Lab ID:	303301-01 1/10
Date Analyzed:	03/21/13	Data File:	032116.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	38
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	1,300
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	1,100
Tetrachloroethene	6,900 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130321-DB08-60	Client:	SoundEarth Strategies
Date Received:	03/21/13	Project:	SOU_0797_20130321, F&BI 303301
Date Extracted:	03/21/13	Lab ID:	303301-01 1/100
Date Analyzed:	03/21/13	Data File:	032115.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	38
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	1,200
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	1,100
Tetrachloroethene	7,300

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130321, F&BI 303301
Date Extracted:	03/21/13	Lab ID:	03-0474 mb
Date Analyzed:	03/21/13	Data File:	032107.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/25/13
Date Received: 03/21/13
Project: SOU_0797_20130321, F&BI 303301

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303291-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	<0.2	<0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Date of Report: 03/25/13
Date Received: 03/21/13
Project: SOU_0797_20130321, F&BI 303301

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	98	101	73-132	3
Chloroethane	ug/L (ppb)	50	117	125	68-126	7
1,1-Dichloroethene	ug/L (ppb)	50	105	103	75-119	2
Methylene chloride	ug/L (ppb)	50	99	100	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	101	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	99	102	80-116	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	99	81-111	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	99	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	111	80-116	7
Trichloroethene	ug/L (ppb)	50	97	98	77-108	1
Tetrachloroethene	ug/L (ppb)	50	101	101	78-109	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303301

SAMPLE CHAIN OF CUSTODY

ME 3/21/13 V2

Page # 1 of 1

Send Report To Chuck Cecil

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24hr TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		Notes
20130321-DB08-60	DB08	60	01 AF	3-21-13	0840	water	6							X		

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/21/13	1520
Received by:	Nhan Pham	FEB I	3/21/13	1520
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 26, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 22, 2013 from the SOU_0797_20130322, F&BI 303321 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0326R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 22, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130322, F&BI 303321 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303321 -01	20130322-DB04-60

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130322-DB04-60	Client:	SoundEarth Strategies
Date Received:	03/22/13	Project:	SOU_0797_20130322, F&BI 303321
Date Extracted:	03/22/13	Lab ID:	30332101
Date Analyzed:	03/22/13	Data File:	032216.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	15

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130322, F&BI 303321
Date Extracted:	03/22/13	Lab ID:	030476 mb
Date Analyzed:	03/22/13	Data File:	032208.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/26/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303296-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	96	50-150
Chloroethane	ug/L (ppb)	50	<1	111	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	97	50-150
Methylene chloride	ug/L (ppb)	50	<5	98	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	97	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	96	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	97	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	91	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	96	50-150
Trichloroethene	ug/L (ppb)	50	<1	93	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	93	50-150

Date of Report: 03/26/13
Date Received: 03/22/13
Project: SOU_0797_20130322, F&BI 303321

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	99	97	70-130	2
Chloroethane	ug/L (ppb)	50	118	115	70-130	3
1,1-Dichloroethene	ug/L (ppb)	50	103	97	70-130	6
Methylene chloride	ug/L (ppb)	50	102	99	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	95	70-130	6
1,1-Dichloroethane	ug/L (ppb)	50	97	93	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	94	70-130	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	90	70-130	5
1,1,1-Trichloroethane	ug/L (ppb)	50	100	96	70-130	4
Trichloroethene	ug/L (ppb)	50	95	92	70-130	3
Tetrachloroethene	ug/L (ppb)	50	97	91	70-130	6

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

ME 03-22-13 V2

303321

Send Report To Chuck Crook

Company SoundEarth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0747 Two Dexter

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24h TAT
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	TPH-D w/ SGC		Notes
20130322-0804-GD	DB04	GD	ON ICE	3-22-13	0955	water	6							X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hunsley	SES	3-22-13	1107
Received by:		D O VO	F+BI	11	11
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 3 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 27, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 25, 2013 from the SOU_0797_20130325, F&BI 303350 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0327R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130325, F&BI 303350 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303350 -01	20130325-B06-80

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130325-B06-80	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303350
Date Extracted:	03/25/13	Lab ID:	303350-01
Date Analyzed:	03/25/13	Data File:	032526.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	5.0
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	4.4
Tetrachloroethene	200 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130325-B06-80	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797_20130325, F&BI 303350
Date Extracted:	03/26/13	Lab ID:	303350-01 1/10
Date Analyzed:	03/26/13	Data File:	032610.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<2
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	<10
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	<10
Tetrachloroethene	170

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130325, F&BI 303350
Date Extracted:	03/25/13	Lab ID:	03-0516 mb
Date Analyzed:	03/25/13	Data File:	032525.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/27/13
Date Received: 03/25/13
Project: SOU_0797_20130325, F&BI 303350

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303350-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	98	61-139
Chloroethane	ug/L (ppb)	50	<1	117	68-126
1,1-Dichloroethene	ug/L (ppb)	50	<1	106	71-123
Methylene chloride	ug/L (ppb)	50	<5	102	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	102	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	5.0	101	73-119
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	114	79-116
Trichloroethene	ug/L (ppb)	50	4.4	100	75-109
Tetrachloroethene	ug/L (ppb)	50	200	99 b	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	93	94	73-132	1
Chloroethane	ug/L (ppb)	50	113	116	68-126	3
1,1-Dichloroethene	ug/L (ppb)	50	95	97	75-119	2
Methylene chloride	ug/L (ppb)	50	93	94	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	96	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	95	95	80-116	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	94	81-111	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	92	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	106	109	80-116	3
Trichloroethene	ug/L (ppb)	50	92	94	77-108	2
Tetrachloroethene	ug/L (ppb)	50	95	97	78-109	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303350

SAMPLE CHAIN OF CUSTODY

ME 03/25/13 V2

Send Report To Chuck Carroll

Company Sound Earth Strategies

Address 2811 Fairview Ave E Ste 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 700 Dexter 0797

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24 hr TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	HVOC's		Notes
20130325-DB06-80	DB06	80	01A-F	3-25-13	1225	wtr	6							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	3/25/13	1350
Received by:	Nhan Phan	FEBT	3/25/13	1350
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 8 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 28, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 25, 2013 from the SOU_0797-001_20130325, F&BI 303352 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0328R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797-001_20130325, F&BI 303352 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303352 -01	MW118-20130325
303352 -02	MW119-20130325

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW118-20130325	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797-001_20130325, F&BI 303352
Date Extracted:	03/25/13	Lab ID:	303352-01
Date Analyzed:	03/26/13	Data File:	032615.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW119-20130325	Client:	SoundEarth Strategies
Date Received:	03/25/13	Project:	SOU_0797-001_20130325, F&BI 303352
Date Extracted:	03/25/13	Lab ID:	303352-02
Date Analyzed:	03/26/13	Data File:	032616.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	3.3
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797-001_20130325, F&BI 303352
Date Extracted:	03/25/13	Lab ID:	03-0516 mb
Date Analyzed:	03/25/13	Data File:	032525.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/28/13
Date Received: 03/25/13
Project: SOU_0797-001_20130325, F&BI 303352

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303350-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	98	61-139
Chloroethane	ug/L (ppb)	50	<1	117	68-126
1,1-Dichloroethene	ug/L (ppb)	50	<1	106	71-123
Methylene chloride	ug/L (ppb)	50	<5	102	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	102	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	5.0	101	73-119
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	114	79-116
Trichloroethene	ug/L (ppb)	50	4.4	100	75-109
Tetrachloroethene	ug/L (ppb)	50	200 ve	99 b	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	93	94	73-132	1
Chloroethane	ug/L (ppb)	50	113	116	68-126	3
1,1-Dichloroethene	ug/L (ppb)	50	95	97	75-119	2
Methylene chloride	ug/L (ppb)	50	93	94	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	96	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	95	95	80-116	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	92	94	81-111	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	92	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	106	109	80-116	3
Trichloroethene	ug/L (ppb)	50	92	94	77-108	2
Tetrachloroethene	ug/L (ppb)	50	95	97	78-109	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303352

SAMPLE CHAIN OF CUSTODY ME 03-25-13

V2

Send Report to Chuck Caceck

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue E, Suite 2000

City, State, ZIP Seattle, WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) Krista Garrett

PROJECT NAME/NO. 700 Dexter / 0797-001

PO #

REMARKS

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
✓RUSH 48 hr TAT
Rush charges authorized by:

SAMPLE DISPOSAL
✓Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED: HVOCs by 8260C	Methane, Ethane, Ethene by RSK175	Sulfate by 375.4/SM4500S04	Nitrate by 353.2/SM4500N03	Ferrous Iron and Manganese by 200.8	Total Organic Carbon by 415.1	Total Alkalinity by 310.1/SM2320B	pH by 9040C	Notes
MW118-20130325	MW118	45	01A-F	03/25/13	1336	H_2O	6	X								
MW119-20130325	MW119	25	02T	03/25/13	1200	H_2O	6	X								
				KKG												
					03/25/13											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Krista Garrett	KRISTA GARRETT	SES	03/25/13	1430
Received by: Nhan Phan	Nhan Phan	FEBI	3/25/13	1430
Relinquished by:				
Received by:		Samples received at 6 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

March 28, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 26, 2013 from the SOU_0797_20130326, F&BI 303379 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0328R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 26, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130326, F&BI 303379 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303379 -01	20130326-DB05-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130326-DB05-70	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303379
Date Extracted:	03/26/13	Lab ID:	303379-01
Date Analyzed:	03/26/13	Data File:	032612.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.7
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	11
Tetrachloroethene	1,700 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130326-DB05-70	Client:	SoundEarth Strategies
Date Received:	03/26/13	Project:	SOU_0797_20130326, F&BI 303379
Date Extracted:	03/26/13	Lab ID:	303379-01 1/100
Date Analyzed:	03/27/13	Data File:	032710.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	<100
Tetrachloroethene	1,400

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130326, F&BI 303379
Date Extracted:	03/26/13	Lab ID:	03-0517 mb
Date Analyzed:	03/26/13	Data File:	032611.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 03/28/13
Date Received: 03/26/13
Project: SOU_0797_20130326, F&BI 303379

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303386-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	92	50-150
Chloroethane	ug/L (ppb)	50	<1	82	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	94	50-150
Methylene chloride	ug/L (ppb)	50	<5	103	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	98	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	97	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	98	50-150
Trichloroethene	ug/L (ppb)	50	<1	98	50-150
Tetrachloroethene	ug/L (ppb)	50	7	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	98	95	70-130	3
Chloroethane	ug/L (ppb)	50	90	86	70-130	5
1,1-Dichloroethene	ug/L (ppb)	50	97	97	70-130	0
Methylene chloride	ug/L (ppb)	50	105	104	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	98	70-130	1
1,1-Dichloroethane	ug/L (ppb)	50	98	99	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	101	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	97	96	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	50	103	102	70-130	1
Trichloroethene	ug/L (ppb)	50	98	100	70-130	2
Tetrachloroethene	ug/L (ppb)	50	101	101	70-130	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303379

SAMPLE CHAIN OF CUSTODY

ME 03/26/13 V2

Page # 1 of 1

Send Report To Chuck Cuelli

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206 306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0797 700 Dexter

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH 24hr TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals	Lvocs		Notes
2013026-0805_76	D305	70	ONF	3-26-13	0950	w	6							X		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A Hunter	Sound Earth	3-26-13	1900
Received by:		Nhan Phan	FedEx	3/26/13	1100
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 2, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 27, 2013 from the SOU_0797_20130327, F&BI 303414 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0402R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 27, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130327, F&BI 303414 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303414 -01	20130327-DB03-60

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130327-DB03-60	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303414
Date Extracted:	03/27/13	Lab ID:	303414-01
Date Analyzed:	03/27/13	Data File:	032735.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	12
Chloroethane	<1
1,1-Dichloroethene	5.8
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	400 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	380 ve
Tetrachloroethene	3,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130327-DB03-60	Client:	SoundEarth Strategies
Date Received:	03/27/13	Project:	SOU_0797_20130327, F&BI 303414
Date Extracted:	03/27/13	Lab ID:	303414-01 1/100
Date Analyzed:	03/28/13	Data File:	032810.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	420
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	420
Tetrachloroethene	6,700

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130327, F&BI 303414
Date Extracted:	03/27/13	Lab ID:	03-0521 mb
Date Analyzed:	03/27/13	Data File:	032731.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/02/13
Date Received: 03/27/13
Project: SOU_0797_20130327, F&BI 303414

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303404-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	81	61-139
Chloroethane	ug/L (ppb)	50	<1	105	68-126
1,1-Dichloroethene	ug/L (ppb)	50	<1	92	71-123
Methylene chloride	ug/L (ppb)	50	<5	89	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	92	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	92	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	91	73-119
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	103	79-116
Trichloroethene	ug/L (ppb)	50	<1	93	75-109
Tetrachloroethene	ug/L (ppb)	50	2.2	90	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	96	86	73-132	11
Chloroethane	ug/L (ppb)	50	121	110	68-126	10
1,1-Dichloroethene	ug/L (ppb)	50	104	98	75-119	6
Methylene chloride	ug/L (ppb)	50	102	94	63-132	8
trans-1,2-Dichloroethene	ug/L (ppb)	50	103	95	76-118	8
1,1-Dichloroethane	ug/L (ppb)	50	102	94	80-116	8
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	91	81-111	10
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	89	79-109	7
1,1,1-Trichloroethane	ug/L (ppb)	50	116	107	80-116	8
Trichloroethene	ug/L (ppb)	50	101	93	77-108	8
Tetrachloroethene	ug/L (ppb)	50	104	96	78-109	8

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303414

SAMPLE CHAIN OF CUSTODY

ME 03-13 03-27-13 V2

Page 1 of 1

Send Report To Chuck Cudk

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1400 Fax # 206-306-1499

SAMPLERS (signature)

PROJECT NAME/NO. 0797 Two Dayton

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24 hr TAT

Rush charges authorized by: CCC

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		Notes
2013037-003-60	DB3	60	01 AT	3-27-13	0935	Water	6							X		

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Merdel	SES	3/27/13	1350
Received by:	D Duo	F&BE	11	11
Relinquished by:				
Received by:				

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 5, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 28, 2013 from the SOU_0797_20130328, F&BI 303446 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0405R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 28, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130328, F&BI 303446 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303446 -01	20130328-DB05A-45
303446 -02	20130328-DB07-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130328-DB05A-45	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303446
Date Extracted:	03/28/13	Lab ID:	303446-01
Date Analyzed:	03/28/13	Data File:	032828.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.2
Chloroethane	<1
1,1-Dichloroethene	4.8
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	42
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	790 ve
Tetrachloroethene	13,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130328-DB05A-45	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303446
Date Extracted:	03/29/13	Lab ID:	303446-01 1/2000
Date Analyzed:	03/29/13	Data File:	032926.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<400
Chloroethane	<2,000
1,1-Dichloroethene	<2,000
Methylene chloride	<10,000
trans-1,2-Dichloroethene	<2,000
1,1-Dichloroethane	<2,000
cis-1,2-Dichloroethene	<2,000
1,2-Dichloroethane (EDC)	<2,000
1,1,1-Trichloroethane	<2,000
Trichloroethene	<2,000
Tetrachloroethene	230,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130328-DB07-70	Client:	SoundEarth Strategies
Date Received:	03/28/13	Project:	SOU_0797_20130328, F&BI 303446
Date Extracted:	03/28/13	Lab ID:	303446-02 1/1000
Date Analyzed:	03/29/13	Data File:	032911.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<200
Chloroethane	<1,000
1,1-Dichloroethene	<1,000
Methylene chloride	<5,000
trans-1,2-Dichloroethene	<1,000
1,1-Dichloroethane	<1,000
cis-1,2-Dichloroethene	<1,000
1,2-Dichloroethane (EDC)	<1,000
1,1,1-Trichloroethane	<1,000
Trichloroethene	<1,000
Tetrachloroethene	15,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130328, F&BI 303446
Date Extracted:	03/29/13	Lab ID:	03-0524 mb
Date Analyzed:	03/29/13	Data File:	032908.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130328, F&BI 303446
Date Extracted:	03/28/13	Lab ID:	03-0523 mb
Date Analyzed:	03/28/13	Data File:	032827.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/05/13
Date Received: 03/28/13
Project: SOU_0797_20130328, F&BI 303446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 303446-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	1.2	90	61-139
Chloroethane	ug/L (ppb)	50	<1	118	68-126
1,1-Dichloroethene	ug/L (ppb)	50	4.8	98	71-123
Methylene chloride	ug/L (ppb)	50	<5	97	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	97	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	42	93 b	73-119
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	95	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	108	79-116
Trichloroethene	ug/L (ppb)	50	790	56 b	75-109
Tetrachloroethene	ug/L (ppb)	50	13,000	0 b	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	84	86	73-132	2
Chloroethane	ug/L (ppb)	50	108	110	68-126	2
1,1-Dichloroethene	ug/L (ppb)	50	97	99	75-119	2
Methylene chloride	ug/L (ppb)	50	95	96	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	96	98	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	96	97	80-116	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	96	97	81-111	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	96	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	114	117 vo	80-116	3
Trichloroethene	ug/L (ppb)	50	96	98	77-108	2
Tetrachloroethene	ug/L (ppb)	50	101	102	78-109	1

Date of Report: 04/05/13
Date Received: 03/28/13
Project: SOU_0797_20130328, F&BI 303446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	104	104	50-154	0
Chloroethane	ug/L (ppb)	50	111	112	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	106	107	67-136	1
Methylene chloride	ug/L (ppb)	50	96	95	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	105	104	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	103	102	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	105	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	102	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	105	105	83-130	0
Trichloroethene	ug/L (ppb)	50	103	102	80-120	1
Tetrachloroethene	ug/L (ppb)	50	102	105	76-121	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303446

SAMPLE CHAIN OF CUSTODY

ME 3/28/13 V2

Page 1 of 1

Send Report To Chuck Caccli

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206 306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 7W Dock 0767

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24hr TAT
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	Hvac's		Notes
20130328-DB05A-45	DB05A	45	01 AF	3-28-13	1110	water	6							X		
20130328-DB07-70	DB07	70	02 AF	3-28-13	1400	water	6							X		

Temp of jar received at 6 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hansberger	Sound Earth	3-28-13	1510
Received by:		D O VO	F & B I	4	11
Relinquished by:					
Received by:					

FORMS\COC GEMSR1.DOC (Revision 1)

Samples received at ____ °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 3, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on March 29, 2013 from the SOU_0797_20130329, F&BI 303468 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0403R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 29, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130329, F&BI 303468 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
303468 -01	20130329_DB10-40

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130329_DB10-40	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303468
Date Extracted:	03/29/13	Lab ID:	303468-01 1/1000
Date Analyzed:	03/29/13	Data File:	032934.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<200
Chloroethane	<1,000
1,1-Dichloroethene	<1,000
Methylene chloride	<5,000
trans-1,2-Dichloroethene	<1,000
1,1-Dichloroethane	<1,000
cis-1,2-Dichloroethene	<1,000
1,2-Dichloroethane (EDC)	<1,000
1,1,1-Trichloroethane	<1,000
Trichloroethene	1,700
Tetrachloroethene	200,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130329_DB10-40	Client:	SoundEarth Strategies
Date Received:	03/29/13	Project:	SOU_0797_20130329, F&BI 303468
Date Extracted:	03/29/13	Lab ID:	303468-01 1/2000
Date Analyzed:	04/01/13	Data File:	040108.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<400
Chloroethane	<2,000
1,1-Dichloroethene	<2,000
Methylene chloride	<10,000
trans-1,2-Dichloroethene	<2,000
1,1-Dichloroethane	<2,000
cis-1,2-Dichloroethene	<2,000
1,2-Dichloroethane (EDC)	<2,000
1,1,1-Trichloroethane	<2,000
Trichloroethene	<2,000
Tetrachloroethene	200,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130329, F&BI 303468
Date Extracted:	03/29/13	Lab ID:	03-0524 mb
Date Analyzed:	03/29/13	Data File:	032908.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/03/13
Date Received: 03/29/13
Project: SOU_0797_20130329, F&BI 303468

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	104	104	50-154	0
Chloroethane	ug/L (ppb)	50	111	112	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	106	107	67-136	1
Methylene chloride	ug/L (ppb)	50	96	95	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	105	104	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	103	102	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	105	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	102	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	105	105	83-130	0
Trichloroethene	ug/L (ppb)	50	103	102	80-120	1
Tetrachloroethene	ug/L (ppb)	50	102	105	76-121	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

303468

SAMPLE CHAIN OF CUSTODY

ME 03/29/13

V6

Page # 1 of 1

Send Report To Chuck Caudle
Company Sound Earth Strategies
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) G Vahyan
PROJECT NAME/NO. 0797 700 Dexter
PO #
REMARKS Very high concentrations expected

TURNAROUND TIME
☐ Standard (2 Weeks)
☑ RUSH 24hr TAT
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HVOC's					Notes
ANALYSES REQUESTED																	
20130329-DB10-40	01 A-F	3-29-13	0935	water	6							X					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Medel	SES	3/29/13	1100
Received by:	Nhan Phan	FEBT	3/29/13	1100
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

Samples received at 5 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 3, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 1, 2013 from the SOU_0797_20130401, F&BI 304007 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0403R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 1, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies 0797 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304007 -01	20130401-DB10-70

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130401-DB10-70	Client:	SoundEarth Strategies
Date Received:	04/01/13	Project:	SOU_0797_20130401, F&BI 304007
Date Extracted:	04/01/13	Lab ID:	304007-01 1/100
Date Analyzed:	04/01/13	Data File:	040126.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	97	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	<100
Tetrachloroethene	6,900

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130401, F&BI 304007
Date Extracted:	04/01/13	Lab ID:	03-0558 mb
Date Analyzed:	04/01/13	Data File:	040107.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/03/13
Date Received: 04/01/13
Project: SOU_0797_20130401, F&BI 304007

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	102	102	50-154	0
Chloroethane	ug/L (ppb)	50	112	111	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	105	105	67-136	0
Methylene chloride	ug/L (ppb)	50	94	94	39-148	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	102	68-128	0
1,1-Dichloroethane	ug/L (ppb)	50	102	102	79-121	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	102	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	102	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	105	104	83-130	1
Trichloroethene	ug/L (ppb)	50	99	101	80-120	2
Tetrachloroethene	ug/L (ppb)	50	98	99	76-121	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304007

SAMPLE CHAIN OF CUSTODY ME 04-01-13 V1

Page # 1 of 1

Send Report To Chuck Casale
Company Sound Earth Strategies
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 8767 700 Dexter
PO #
REMARKS

TURNAROUND TIME
☐ Standard (2 Weeks)
☑ RUSH 24hr TAT
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hvac's						Notes
20130401-0830-70	01 A-F	4-1-13	1115	water	6							X						

ANALYSES REQUESTED

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hamburger	Sound Earth	4-1-13	1220
Received by:					
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 9, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 3, 2013 from the SOU_0797_20130403, F&BI 304064 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0409R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 3, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130403, F&BI 304064 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304064 -01	20130403-DB12-15
304064 -02	20130403-DB12-45
304064 -03	20130403-DB13-15
304064 -04	20130403-DB13-45

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB12-15	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-01 1/2000
Date Analyzed:	04/04/13	Data File:	040408.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<400
Chloroethane	<2,000
1,1-Dichloroethene	<2,000
Methylene chloride	<10,000
trans-1,2-Dichloroethene	<2,000
1,1-Dichloroethane	<2,000
cis-1,2-Dichloroethene	3,100
1,2-Dichloroethane (EDC)	<2,000
1,1,1-Trichloroethane	<2,000
Trichloroethene	4,800
Tetrachloroethene	170,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB12-45	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-02 1/1000
Date Analyzed:	04/04/13	Data File:	040409.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<200
Chloroethane	<1,000
1,1-Dichloroethene	<1,000
Methylene chloride	<5,000
trans-1,2-Dichloroethene	<1,000
1,1-Dichloroethane	<1,000
cis-1,2-Dichloroethene	<1,000
1,2-Dichloroethane (EDC)	<1,000
1,1,1-Trichloroethane	<1,000
Trichloroethene	1,100
Tetrachloroethene	46,000

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB13-15	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-03
Date Analyzed:	04/03/13	Data File:	040335.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	1.8
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	150 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	100
Tetrachloroethene	2,000 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB13-15	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-03 1/100
Date Analyzed:	04/04/13	Data File:	040412.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20 pr
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	160
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	100
Tetrachloroethene	2,500

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB13-45	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-04
Date Analyzed:	04/03/13	Data File:	040336.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	106	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.0
Chloroethane	<1
1,1-Dichloroethene	5.2
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	430 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	800 ve
Tetrachloroethene	4,200 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130403-DB13-45	Client:	SoundEarth Strategies
Date Received:	04/03/13	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	304064-04 1/2000
Date Analyzed:	04/04/13	Data File:	040410A.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<400 pr
Chloroethane	<2,000
1,1-Dichloroethene	<2,000
Methylene chloride	<10,000
trans-1,2-Dichloroethene	<2,000
1,1-Dichloroethane	<2,000
cis-1,2-Dichloroethene	<2,000
1,2-Dichloroethane (EDC)	<2,000
1,1,1-Trichloroethane	<2,000
Trichloroethene	<2,000
Tetrachloroethene	8,200

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0797_20130403, F&BI 304064
Date Extracted:	04/03/13	Lab ID:	03-0591 mb
Date Analyzed:	04/03/13	Data File:	040310.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/09/13
Date Received: 04/03/13
Project: SOU_0797_20130403, F&BI 304064

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 304055-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	0.75	100	36-166
Chloroethane	ug/L (ppb)	50	<1	107	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	111	60-136
Methylene chloride	ug/L (ppb)	50	<5	96	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	107	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	109	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	108	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	108	60-146
Trichloroethene	ug/L (ppb)	50	7.9	104	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	103	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	100	96	50-154	4
Chloroethane	ug/L (ppb)	50	108	104	58-146	4
1,1-Dichloroethene	ug/L (ppb)	50	109	105	67-136	4
Methylene chloride	ug/L (ppb)	50	94	90	39-148	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	104	98	68-128	6
1,1-Dichloroethane	ug/L (ppb)	50	102	97	79-121	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	98	80-123	7
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	105	99	73-132	6
1,1,1-Trichloroethane	ug/L (ppb)	50	104	100	83-130	4
Trichloroethene	ug/L (ppb)	50	104	97	80-120	7
Tetrachloroethene	ug/L (ppb)	50	105	98	76-121	7

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY ME 04-03-13

304064

V2

Send Report To Chuck Carrick

Company Sound Earth Strategies

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1400 Fax # 206-306-1407

SAMPLERS (signature)

PROJECT NAME/NO. 0747 Tax Dodger

PO #

REMARKS

GEMS Y / N

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☑ RUSH 24 hrs
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals	HVOC's		Notes
								ANALYSES REQUESTED								
20130403-DB12-15	DB12	15	01A-F	4-3-13	0945	water	6							X		K-per CC 4/3/13 MC
20130403-DB12-45	1	45	02	1	0925	water	6							X		
20130403-DB13-15	DB13	15	03	1	1055	water	6							X		
20130403-DB13-45			04	1	1150	water	6							X	*	Added at lab (HO) 4/3/13

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Robert A. Hodgson	SES	4-3-13	1257
Received by:		VINH	FBI	4/3/13	1257
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Samples received at 7 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 29, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the additional results from the testing of material submitted on April 3, 2013 from the SOU_0797_20130403, F&BI 304064 project. There are 4 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0429R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 3, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0797_20130403, F&BI 304064 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304064 -01	20130403-DB12-15
304064 -02	20130403-DB12-45
304064 -03	20130403-DB13-15
304064 -04	20130403-DB13-45

All quality control requirements were acceptable.

Date of Report: 04/29/13
Date Received: 04/03/13
Project: SOU_0797_20130403, F&BI 304064
Date Extracted: NA
Date Analyzed: 04/22/13

RESULTS FROM THE SCREENING ANALYSIS OF WATER SAMPLES FOR CONDUCTIVITY

Results Reported as µS/cm

Sample ID Laboratory ID	Conductivity
20130403-DB12-15 304064-01	1,040
20130403-DB12-45 304064-02	438
20130403-DB13-15 304064-03	894
20130403-DB13-45 304064-04	933
Method Blank	<10

Date of Report: 04/29/13
Date Received: 04/03/13
Project: SOU_0797_20130403, F&BI 304064

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR CONDUCTIVITY (SCREEN)

Laboratory Code: 303468-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Conductivity	µS/cm	696	700	1	0-20

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304064

SAMPLE CHAIN OF CUSTODY ME 04-03-13

Page # 1 of 1

Send Report To Chuck Carpenter

Company Sound Earth Strategies

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME / NO. 0317 Tax Parcel

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 24 hrs
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	Cond-alinity RCRA-8 Metals	HVOC's		Notes
20130403-DB11-15	DB11	15	01A	4-3-13	0935	water	6						X	X		X-per CC 4/3/13 MC
20130403-DB12-15	12	15	02		0925		6						X	X		
20130403-DB13-15	DB13	15	03		1055		6						X	X		
20130403-DB15-15	DB15	15	04		1150	water	6						X	X	*	* Added at lab (LW) 4/3/13

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hodgson	SES	4-3-13	1257
Received by:	VINH	EBI	4/3/13	1257
Relinquished by:				
Received by:				

Samples received at 7 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 11, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on April 4, 2013 from the SOU_0797_20130404, F&BI 304100 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
C: Brian Dixon
SOU0411R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 4, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies 0797 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304100 -01	20130404-DB14-15
304100 -02	20130404-DB14-45

All quality control requirements were acceptable.

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304100
Date Extracted: 04/05/13
Date Analyzed: 04/05/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
20130404-DB14-15 304100-01 1/40	100	<40	90	130	7,200	111
Method Blank 03-0579 MB	<1	<1	<1	<3	<100	109

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	20130404-DB14-45	Client:	SoundEarth Strategies
Date Received:	04/04/13	Project:	SOU_0797_20130404, F&BI 304100
Date Extracted:	04/04/13	Lab ID:	304100-02 1/100
Date Analyzed:	04/05/13	Data File:	040507.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	140
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	840
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	210
Tetrachloroethene	470

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_0797_20130404, F&BI 304100
Date Extracted:	04/04/13	Lab ID:	03-0594 mb
Date Analyzed:	04/04/13	Data File:	040407.D
Matrix:	Water	Instrument:	GCMS7
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304100

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 304083-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	91	65-118
Toluene	ug/L (ppb)	50	89	72-122
Ethylbenzene	ug/L (ppb)	50	89	73-126
Xylenes	ug/L (ppb)	150	89	74-118
Gasoline	ug/L (ppb)	1,000	99	69-134

Date of Report: 04/11/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304100

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 304081-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	12	102 b	50-150
Chloroethane	ug/L (ppb)	50	<1	112	50-150
1,1-Dichloroethene	ug/L (ppb)	50	<1	113	50-150
Methylene chloride	ug/L (ppb)	50	<5	95	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	50-150
1,1-Dichloroethane	ug/L (ppb)	50	<1	109	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	50	5.1	106	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	109	50-150
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	104	50-150
Trichloroethene	ug/L (ppb)	50	1.9	99	50-150
Tetrachloroethene	ug/L (ppb)	50	<1	112	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	108	108	70-130	0
Chloroethane	ug/L (ppb)	50	111	113	70-130	2
1,1-Dichloroethene	ug/L (ppb)	50	119	117	70-130	2
Methylene chloride	ug/L (ppb)	50	96	96	70-130	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	109	108	70-130	1
1,1-Dichloroethane	ug/L (ppb)	50	113	114	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	112	111	70-130	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	112	113	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	50	109	111	70-130	2
Trichloroethene	ug/L (ppb)	50	106	105	70-130	1
Tetrachloroethene	ug/L (ppb)	50	112	114	70-130	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304100

SAMPLE CHAIN OF CUSTODY

ME 04-04-13 VL

Send Report To: Chuck Czech
Company: SoundEarth Strategies
Address: 2811 Fairview Ave E Suite 2000
City, State, ZIP: Seattle, WA 98102
Phone #: 206.306.1900 Fax #: 206.306.1907

SAMPLERS (signature):
PROJECT NAME/NO.: 700 Dexter/0797
PO #:
REMARKS:

Page # 1 of 1

TURNAROUND TIME
☐ Standard (2 Weeks)
☒ RUSH 24 hrs
Rush charges authorized by CC

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HVACs	Notes
20130404-D814-15	01 A-F	4/4/13	0835	H2O	6		X	X					HOLD
20130404-D814-45	02 T	↓	0920	↓	↓							X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Mendel	SES	4/4/13	1045
Received by:	DO VO	F+BT	"	"
Relinquished by:				
Received by:				

Samples received at 6 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

April 29, 2013

Chuck Cacek, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Cacek:

Included are the additional results from the testing of material submitted on April 4, 2013 from the SOU_0797_20130404, F&BI 304100 project. There are 4 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Brian Dixon
SOU0429R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on April 4, 2013 by Friedman & Bruya, Inc. from the SoundEarth Strategies 0797 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
304100 -01	20130404-DB14-15
304100 -02	20130404-DB14-45

All quality control requirements were acceptable.

Date of Report: 04/29/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304100
Date Extracted: NA
Date Analyzed: 04/22/13

RESULTS FROM THE SCREENING ANALYSIS OF WATER SAMPLES FOR CONDUCTIVITY

Results Reported as µS/cm

Sample ID Laboratory ID	Conductivity
20130404-DB14-15 304100-01	1,820
20130404-DB14-45 304100-02	1,320
Method Blank	<10

Date of Report: 04/29/13
Date Received: 04/04/13
Project: SOU_0797_20130404, F&BI 304100

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR CONDUCTIVITY (SCREEN)

Laboratory Code: 303468-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Conductivity	µS/cm	696	700	1	0-20

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

304100

SAMPLE CHAIN OF CUSTODY

ME 04-04-13 VV

Send Report To: Chuck Crecli
Company: SoundEarth Strategies
Address: 2811 Fairview Ave E Suite 2000
City, State, ZIP: Seattle, WA 98102
Phone #: 206.306.1900 Fax #: 206.306.1907

SAMPLERS (signature):

PROJECT NAME/NO.: 700 Denny/0797

PO #:

REMARKS:

Page # 1 of 1

TURNAROUND TIME
☐ Standard (2 Weeks)
☒ RUSH 3 day
Rush charges authorized by: CC

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED: NWTPH-Diesel	NWTPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	HVOCs	Conductivity	Notes
20130404-D814-15	01 A-F	4/4/13	0835	H20	6		X	X					★	HOLD
20130404-D814-45	02 T	↓	0920	↓	↓							X	★	

Friedman & Bruya, Inc
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		David Mendl	SES	4/4/13	1045
Received by:		DM	F+B	"	"
Relinquished by:					
Received by:					

Samples received at 6 °C

Soil Gas

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3/22/2013
Mr. Tom Cammarata
SoundEarth Strategies, Inc
2811 Fairview Avenue East
Suite 2000
Seattle WA 98102

Project Name: 700 DEXTER
Project #:
Workorder #: 1303298A

Dear Mr. Tom Cammarata

The following report includes the data for the above referenced project for sample(s) received on 3/15/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1303298A

Work Order Summary

CLIENT:	Mr. Tom Cammarata SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102	**BILL TO:**	Mr. Tom Cammarata SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102
PHONE:	206-306-1900	**P.O. #**	0797-001-02
FAX:	206-306-1907	**PROJECT #**	700 DEXTER
DATE RECEIVED:	03/15/2013	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/22/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV01-20130311	Modified TO-15 SIM	2.5 "Hg	5 psi
02A	SV02-20130311	Modified TO-15 SIM	4.0 "Hg	5 psi
03A	SV03-20130311	Modified TO-15 SIM	2.5 "Hg	5 psi
04A	Lab Blank	Modified TO-15 SIM	NA	NA
05A	CCV	Modified TO-15 SIM	NA	NA
06A	LCS	Modified TO-15 SIM	NA	NA
06AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 03/22/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
SoundEarth Strategies, Inc
Workorder# 1303298A

Three 6 Liter Summa Canister (SIM Certified) samples were received on March 15, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: SV01-20130311

Lab ID#: 1303298A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	0.28	0.037	0.71
cis-1,2-Dichloroethene	0.029	0.079	0.12	0.31
Tetrachloroethene	0.029	0.23	0.20	1.5

Client Sample ID: SV02-20130311

Lab ID#: 1303298A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.031	0.34	0.21	2.3

Client Sample ID: SV03-20130311

Lab ID#: 1303298A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.029	0.072	0.16	0.39
Tetrachloroethene	0.029	0.67	0.20	4.6

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Client Sample ID: SV01-20130311

Lab ID#: 1303298A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032007sim**	**Date of Collection: 3/11/13 1:22:00 PM**	
Dil. Factor:	**1.46**	**Date of Analysis: 3/20/13 02:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	0.28	0.037	0.71
cis-1,2-Dichloroethene	0.029	0.079	0.12	0.31
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	0.23	0.20	1.5
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SV02-20130311

Lab ID#: 1303298A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032008sim**	**Date of Collection: 3/11/13 2:15:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 3/20/13 03:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.34	0.21	2.3
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: SV03-20130311

Lab ID#: 1303298A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032010sim**	**Date of Collection: 3/11/13 3:09:00 PM**	
Dil. Factor:	**1.46**	**Date of Analysis: 3/20/13 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.037	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.12	Not Detected
Trichloroethene	0.029	0.072	0.16	0.39
Tetrachloroethene	0.029	0.67	0.20	4.6
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1303298A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032006sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/13 01:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 1303298A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032002sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/13 10:21 AM**	

Compound	%Recovery
Vinyl Chloride	88
cis-1,2-Dichloroethene	96
Trichloroethene	88
Tetrachloroethene	95
trans-1,2-Dichloroethene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCS

Lab ID#: 1303298A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032003sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/13 11:05 AM**	

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	101
Trichloroethene	93
Tetrachloroethene	98
trans-1,2-Dichloroethene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 1303298A-06AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**c032004sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/13 11:52 AM**	

Compound	%Recovery
Vinyl Chloride	94
cis-1,2-Dichloroethene	101
Trichloroethene	92
Tetrachloroethene	99
trans-1,2-Dichloroethene	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	110	70-130

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager TOM CAMMARATA
Collected by: (Print and Sign) TYLER OESTER
Company SOUNDEARTH STRATEGIES Email tcammarata@soundearthinc.com
Address 2811 FAIRVIEW AVE E STE. 2000 City SEATTLE State WA Zip 98102
Phone 206 306 1900 Fax 206 306 1907

Project Info:
P.O. # 0797.001-02
Project # _____
Project Name 700 DEXTER

Turn Around Time:
☐ Normal
☒ Rush 1 WEEK
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV01-20130311	5664	3/11/13	1322	TO-15 SIM, He	-30"Hg	-5"Hg		
02A	SV02-20130311	35988	3/11/13	1415	TO-15 SIM, He	-28"Hg	-5"Hg		
03A	SV03-20130311	35140	3/11/13	1509	TO-15 SIM, He	-30"Hg	-5"Hg		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	1650 3/11/13		3/15/13 1340
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
PCE, TCE, cis-1,2-DCE, trans-1,2-DCE AND VC ONLY!

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex Gr.		N/A	Good	Yes No None	1303298

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3/22/2013
Mr. Tom Cammarata
SoundEarth Strategies, Inc
2811 Fairview Avenue East
Suite 2000
Seattle WA 98102

Project Name: 700 DEXTER
Project #:
Workorder #: 1303298B

Dear Mr. Tom Cammarata

The following report includes the data for the above referenced project for sample(s) received on 3/15/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1303298B

Work Order Summary

CLIENT:	Mr. Tom Cammarata SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102	**BILL TO:**	Mr. Tom Cammarata SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102
PHONE:	206-306-1900	**P.O. #**	0797-001-02
FAX:	206-306-1907	**PROJECT #**	700 DEXTER
DATE RECEIVED:	03/15/2013	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	03/22/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV01-20130311	Modified ASTM D-1946	2.5 "Hg	5 psi
02A	SV02-20130311	Modified ASTM D-1946	4.0 "Hg	5 psi
03A	SV03-20130311	Modified ASTM D-1946	2.5 "Hg	5 psi
04A	Lab Blank	Modified ASTM D-1946	NA	NA
05A	LCS	Modified ASTM D-1946	NA	NA
05AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 03/22/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.
Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
SoundEarth Strategies, Inc
Workorder# 1303298B

Three 6 Liter Summa Canister (SIM Certified) samples were received on March 15, 2013. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV01-20130311

Lab ID#: 1303298B-01A

No Detections Were Found.

Client Sample ID: SV02-20130311

Lab ID#: 1303298B-02A

No Detections Were Found.

Client Sample ID: SV03-20130311

Lab ID#: 1303298B-03A

No Detections Were Found.

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Client Sample ID: SV01-20130311

Lab ID#: 1303298B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031743**	**Date of Collection: 3/11/13 1:22:00 PM**	
Dil. Factor:	**1.46**	**Date of Analysis: 3/17/13 01:04 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.073	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: SV02-20130311

Lab ID#: 1303298B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031744**	**Date of Collection: 3/11/13 2:15:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 3/17/13 01:13 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.078	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: SV03-20130311

Lab ID#: 1303298B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031758**	**Date of Collection: 3/11/13 3:09:00 PM**	
Dil. Factor:	**1.46**	**Date of Analysis: 3/18/13 08:29 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.073	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: Lab Blank

Lab ID#: 1303298B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031727**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/13 10:58 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1303298B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031726**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/17/13 10:49 AM**	

Compound	%Recovery
Helium	98

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1303298B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9031756**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/18/13 08:12 AM**	

Compound	%Recovery
Helium	95

Container Type: NA - Not Applicable

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Project Manager TOM CAMMARATA
Collected by: (Print and Sign) TYLER OESTER
Company SOUNDEARTH STRATEGIES Email tcammarata@soundearthinc.com
Address 2811 FAIRVIEW AVE E STE. 2000 City SEATTLE State WA Zip 98102
Phone 206 306 1900 Fax 206 306 1907

Project Info:
P.O. # 0797.001-02
Project # _____
Project Name 700 DEXTER

Turn Around Time:
☐ Normal
☒ Rush 1 WEEK
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV01-20130311	5664	3/11/13	1322	TO-15 SIM, He	-30"Hg	-5"Hg		
02A	SV02-20130311	35988	3/11/13	1415	TO-15 SIM, He	-28"Hg	-5"Hg		
03A	SV03-20130311	35140	3/11/13	1509	TO-15 SIM, He	-30"Hg	-5"Hg		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	1650 3/11/13		3/15/13 1340
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
PCE, TCE, cis-1,2-DCE, trans-1,2-DCE AND VC ONLY!

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex Gr.		N/A	Good	Yes No None	1303298

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