

#### TITLE 5

### OFFICIAL INSPECTION FOR - NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM

### PART A CERTIFICATION

Property Address: 4 Ladyslipper Circle, Amherst MA 01002

Owner's Name: <u>Debra Roth-Howe</u>
Owner's Address: <u>4 Ladyslipper Circle</u>
Amherst, Ma 01002

Date of Inspection: September 15, 2005)

Name of Inspector: <u>Alan E. Weiss, R.S # 933</u> Company Name: <u>Cold Spring Environmental Inc.</u>

Mailing Address: 350 Old Enfield Road

Belchertown, Massachusetts 01007

Telephone Number: (413) 323-5957 fax: 413-323-4916

#### **CERTIFICATION STATEMENT**

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on site sewage disposal systems. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

	XX Passes	
	Conditionally Passe	s
	Needs Further Eval	uation by the Local Approving Authority
	Fails	
Inspector's Signature:	My	Date: September 15, 2005
The system inspector shall subm	it a copy of this inspection re	eport to the Approving Authority (Board of
Health or DEP) within 30 days of	of completing this inspection	If the system is a shared system or has a de-

flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original should be sent to the system owner and copies sent to the buyer, if

Notes and Comments:

applicable, and the approving authority.

The 1500 gal. Septic Tank was pumped in April 05. The L. Pit was noted in good condition with no standing liquid & 5' airspace. No evidence of High Groundwater in area. Effective height is 5' with (2 stacked 750 gal L. pits.) Property has town water. (house has 4 bedrooms with 2 persons using. All levels good, No signs of Failure, Disposal is not recommended.

\*\*\*\*This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same different conditions of use.

#### CERTIFICATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe Date of Inspection: September 15, 2005
Inspection Summary: Check A,B,C,D or E / <u>ALWAYS</u> complete all of Section D
A. System Passes:
$\frac{XX}{310 \text{ CMR}}$ I have not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.
Comments: Good condition, no signs of failure
B. System Conditionally Passes:
One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health will pass.
Answer yes, no or not determined (Y,N,ND) in the for the following statements. If "not determined" please explain.
The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health. *A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.
ND explain:
observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):  broken pipe(s) are replaced obstruction is removed distribution box is leveled or replaced
ND explain:
The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):  broken pipe(s) are replaced obstruction is removed
ND explain:

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#### CERTIFICATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe
Owner: Ruth Howe Date of Inspection: September 15, 2005
C. Further Evaluation is Required by the Board of Health:
Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.
<ol> <li>System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:</li> </ol>
<ul> <li>Cesspool or privy is within 50 feet of a surface water</li> <li>Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh</li> </ul>
<ol> <li>System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:</li> </ol>
The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**. Method used to determine distance
**This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.
3. Other:

#### CERTIFICATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst
Owner: Ruth Howe

Date of Inspection: September 15, 2005

D. System Failure Criteria applicable to all systems: You <u>must</u> indicate "yes" or "no" to each of the following for <u>all</u> inspections:
Yes No
x Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool x Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
x Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
<ul> <li>x Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow</li> <li>x Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped .</li> </ul>
<ul> <li>x Any portion of the SAS, cesspool or privy is below high ground water elevation.</li> <li>x Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.</li> </ul>
<ul> <li>x Any portion of a cesspool or privy is within a Zone 1 of a public well.</li> <li>x Any portion of a cesspool or privy is within 50 feet of a private water supply well.</li> <li>x Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogeness.</li> </ul>
and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.]  NO (Yes/No) The system fails. I have determined that one or more of the above failure criteria exis as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.
E. Large Systems:  To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to
15,000 gpd.
You must indicate either "yes" or "no" to each of the following: (The following criteria apply to large systems in addition to the criteria above)
yes no the system is within 400 feet of a surface drinking water supply
the system is within 200 feet of a tributary to a surface drinking water supply
the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area - IWPA) or a mapped Zone II of a public water supply well  If you have answered "yes" to any question in Section E the system is considered a significant threat, or answered "yes in Section D above the large system has failed. The owner or operator of any large system considered a significant threat under Section E or failed under Section D shall upgrade the system in accordance with 310 CMR 15.304. The
system owner should contact the appropriate regional office of the Department.

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Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe Date of Inspection: September 15, 2005 Check if the following have been done. You must indicate "yes" or "no" as to each of the following: Yes No x Pumping information was provided by the owner, occupant, or Board of Health No Were any of the system components pumped out in the previous two weeks? \_x \_ \_\_ Has the system received normal flows in the previous two week period? \_\_\_ x Have large volumes of water been introduced to the system recently or as part of this inspection?  $\underline{X}$  \_\_\_\_ Were as built plans of the system obtained and examined? (If they were not available note as N/A) <u>x</u> Was the facility or dwelling inspected for signs of sewage back up? \_x \_\_\_ Was the site inspected for signs of break out? x Were all system components, excluding the SAS, located on site? Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum? Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on: Yes no <u>x</u> \_\_\_ Existing information. For example, a plan at the Board of Health. x Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(3)(b)]

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#### SYSTEM INFORMATION

Property Address: 4 Ladyslipper Circle, Amherst

Owner:

Ruth Howe

Date of Inspection: September 15, 2005

#### FLOW CONDITIONS

FLOW CONDITIONS
RESIDENTIAL
Number of bedrooms (design): _4 Number of bedrooms (actual): 4
DESIGN flow based on 310 CMR 15.203 (for example: 110 grid v # of bedrooms); 660
Number of current residents: 2
Does residence have a garbage grinder (yes or no): YES (NOT RECOMMENDED)
Is laundry on a separate sewage system (yes or no): NO [if yes separate inspection required]
Laundry system inspected (yes or no):
Seasonal use: (yes or no): NO
Water meter readings, if available (last 2 years usage (gpd)): N/a
Sump pump (yes or no): No
Last date of occupancy: current
zusi date of occupancy. <u>current</u>
COMMERCIAL/INDUSTRIAL
Type of establishment: N/A
Design flow (based on 310 CMR 15.203): gpd
Basis of design flow (seats/persons/sqft,etc.):
Grease trap present (yes or no):
Industrial waste holding tank present (yes or no):
Non-sanitary waste discharged to the Title 5 system (yes or NO):
Water meter readings if available.
Water meter readings, if available:  Last date of occupancy/use:
OTHER (describe)
OTHER (describe)
GENERAL INFORMATION
Pumping Records
Source of information: April, 2005
Was system pumped as part of the inspection (YES or NO): NO
If yes, volume pumped:gallons How was quantity pumped determined? Measured
Reason for pumping:
TYPE OF SYSTEM
x Septic tank, distribution box, soil absorption system
Single cesspool
Overflow cesspool
Privy
Shared system (yes or no) (if yes, attach previous inspection records, if any)
Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be
bbtained from system owner)
Tight tank Attach a copy of the DEP approval
Other (describe):
Approximate age of all components, date installed (if known) and source of information: 19 years
Were sewage odors detected when arriving at the site (yes or no): NO

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#### SYSTEM INFORMATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe Date of Francetions Systems by 15, 2005
Date of Inspection: September 15, 2005
BUILDING SEWER (locate on site plan)
Depth below grade: 16"  Materials of construction: cast iron _Y 40 PVC other (explain):  Distance from private water supply well or suction line: 10'+  Comments (on condition of joints, venting, evidence of leakage, etc.):
SEPTIC TANK: <u>Yes</u> (locate on site plan)
Depth below grade: 30"
Material of construction: X concretemetalfiberglasspolyethylene other(explain)
If tank is metal list age: Is age confirmed by a Certificate of Compliance (yes or no): (attach a copy of certificate)
Dimensions: 4.5'w x 10.5'l x 4.5'd
Sludge depth: 1"
Distance from top of sludge to bottom of outlet tee or baffle: 40"
Scum thickness: _1"
Distance from top of scum to top of outlet tee or baffle: 6"
Distance from bottom of scum to bottom of outlet tee or baffle: 12"
How were dimensions determined: <u>MEASURED</u> Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid
levels as related to outlet invert, evidence of leakage, etc.): TANK CONDITION OK
tank has built in inlet & outlet (poured in place baffles)
tank has built in their & built (poured in place buffles)
GREASE TRAP: N/A (locate on site plan)
Depth below grade:
Material of construction: concrete metal fiberglass polyethylene other
(explain):
Dimensions:
Scum thickness:
Distance from top of scum to top of outlet tee or baffle:
Distance from bottom of scum to bottom of outlet tee or baffle:
Date of last pumping:
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

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#### SYSTEM INFORMATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe Date of Inspection: September 15, 2005 TIGHT or HOLDING TANK: no (tank must be pumped at time of inspection)(locate on site plan) Depth below grade: Material of construction: \_\_\_concrete \_\_\_ metal fiberglass polyethylene other(explain): Capacity: \_\_\_\_gallons Design Flow: \_\_\_\_ gallons/day Alarm present (yes or no): Alarm level: Alarm in working order (yes or no): Date of last pumping: Comments (condition of alarm and float switches, etc.): DISTRIBUTION BOX: NO if present must be opened)(locate on site plan) Depth of liquid level above outlet invert: \_\_. Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.): PUMP CHAMBER: NO (locate on site plan) Pumps in working order (yes or no): Alarms in working order (yes or no): Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

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#### SYSTEM INFORMATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst							
Owner: Ruth Howe							
Date of Inspection: September 15, 2005							
SOIL ABSORPTION SYSTEM (SAS): <u>YES</u> (locate on site plan, excavation not required)							
If SAS not located explain why:							
Туре							
1 leaching pits, number: 5' deep by5' wide by 10' long							
leaching chambers, number:							
leaching galleries, number:							
leaching trenches, number, length:							
leaching fields, number, dimensions:							
overflow cesspool, number:							
innovative/alternative system Type/name of technology:							
Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of							
vegetation, etc.): No signs of failure, No Groundwater within 7' of depth' Top of chamber is 3.0 feet down, No standing liquid in pit. No hi, staining visible.							
down, No standing tiquid in pit. No ni, staining visible.							
CESSPOOLS: N/A (cesspool must be pumped as part of inspection)(locate on site plan)  Number and configuration:							
PRIVY: N/A (locate on site plan)  Materials of construction:  Dimensions:  Depth of solids:							
Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)							

#### SYSTEM INFORMATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst

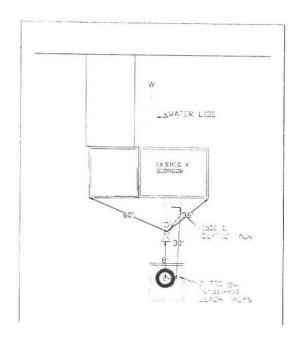
Owner:

**Ruth Howe** 

Date of Inspection: September 15, 2005

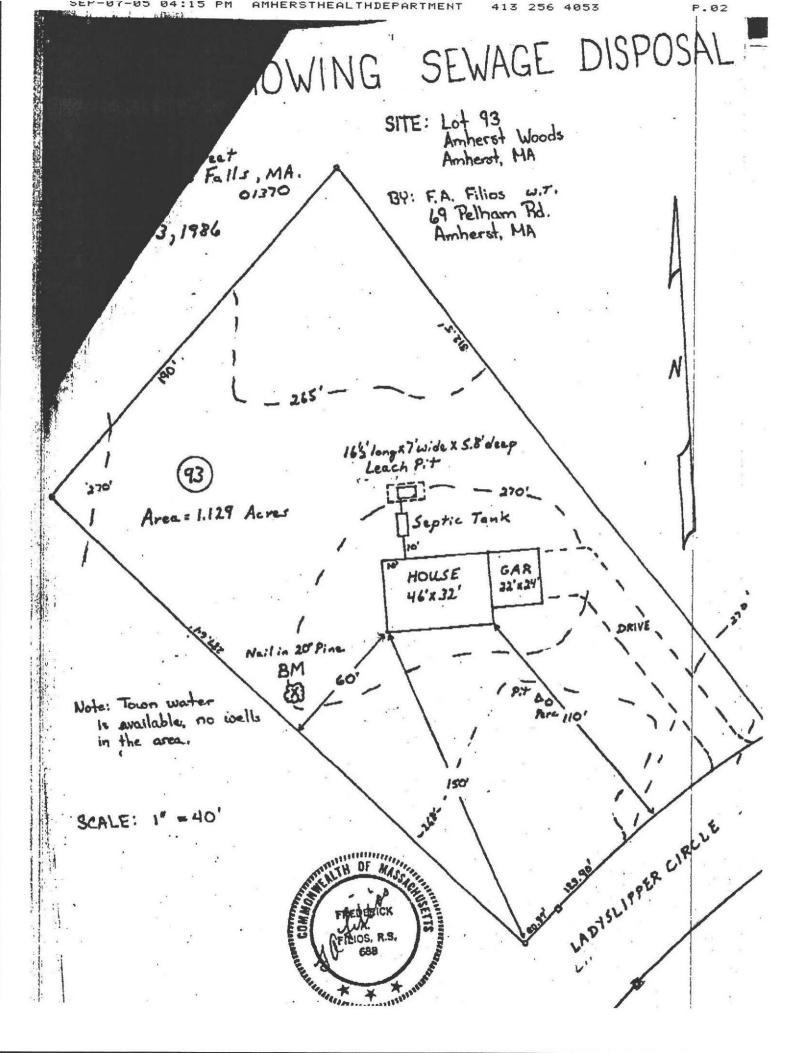
#### SKETCH OF SEWAGE DISPOSAL SYSTEM

Provide a sketch of the sewage disposal system including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building.



#### SYSTEM INFORMATION (continued)

Property Address: 4 Ladyslipper Circle, Amherst Owner: Ruth Howe Date of Inspection: September 15, 2005
SITE EXAM Slope YES Surface water Check cellar YES * Shallow wells
Estimated depth to ground water 10+ feet
Please indicate (check) all methods used to determine the high ground water elevation:
N/A Obtained from system design plans on record - If checked, date of design plan reviewed:  Observed site (abutting property/observation hole within 150 feet of SAS)  Checked with local Board of Health-explain:  Checked with local excavators, installers- (attach documentation)  Accessed USGS database-explain:
You must describe how you established the high ground water elevation:
Water level based on on-site data & from topography vegetation & nearby perc, Excavation in area, all well drained sand AND 1986 RECORDS.



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THE COMMONWEALTH OF MASSACHUSETTS

#### BOARD OF HEALTH

Town of Amherst

**pprintituit tot	winhtings	TH TITUTE	Chimminini	L BELLIUS, KIS.
Application is hereby made for a	Permit to Const	ruct ( ) o	r Repair ( ) an Ir	dividual Sewage Disposal

,,		688	
Application is hereby made for a Permit to Construct ( ) or R	Repair ( ) an Indiv	dual Sewage D	spocal
System at:	0.7	Hand A X	4 MARK
Ladyslipper Circle Amherit Woods	or, Lot No.	Clerian!	all.
Vim Culleny & North	b Strait, S	bellurns.I	alls
Dim Culleny Owner  Browner + Dway  Installer	CONWAY !!	14.	
Type of Building	Address Cinc I of	1.129 E A	200
Dwelling — No. of Bedrooms 4 Expansion	Attic ( )	Garbage Grinde	
Other — Type of Building	Showers		
Other fixtures			1
Design Flow gallons per person per day. Total	al daily flow	0	allons.
Septic Tank - Liquid capacity/500 gallons Length 10.3 Width	Diameter	Depth	-
Disposal Trench No. Width Z. Total Length	Total leaching	ig area.	.sq. 11.
Seepage Pit No	Lotal leach	ing area.s.a.a.a.w	sq, m
Percolation Test Results Performed by E.A. Filias	Date	July 1.19	15
Test Pit No. 12minutes per inch Depth of Test Pit	O Depth to grou	and water. NO.	1.E.
Test Pit No. 2minutes per inch Depth of Test Pit	Depth to grow	and water	
			<b></b>
Description of Soil Enclosed			·······
			1
Nature of Repairs or Alterations - Answer when applicable			
•			1
Agreement:	9		
The undersigned agrees to install the aforedescribed Individual			
the provisions of TITLE 5 of the State Sanitary Code — The undersorter operation until a Certificate of Compliance has been issued by the board		ot to place the sys	stem m
operation until a certificate of compliance has been issued by the board	d of ficaltifi.		1
Signos	My		·
Application Approved By	<u> </u>	4/9/86	9
Application Disapproved for the following reasons:		Date	
supplies to join and		/ /	
9/ .2	11/2	Date Date	
Permit No. 86~17	Issued 7/4	786	
	,		
THE COMMONWEALTH OF MASSA			
BOARD OF HEALT	TH		1
OF			
Certificate of Compl			1
		/ ) or Pansira	100
THIS IS TO CERTIFY, That the Individual Sewage Disposal			( )
by		***************************************	
at	The Chate Coulter C	ada ne deverihad	in the
has been installed in accordance with the provisions of TITLE 5 of application for Disposal Works Construction Permit No			
apprication for Disposal Works Construction Fernat No			1

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE

SYSTEM WILL FUNCTION SATISFACTORY.

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#### FORM 4 - SYSTEM PUMPING REC

## Commonwealth of Massachusetts AMHOIST , Massachusetts

System Pumping Record

System Owner	System Location
Deba Roth Hone	4 Ladyshippor Circle
Type: Emergency - Rout	ine 🖯
Cesspool: No Yes Seption  Date of Pumping: Qu	Tank: No Yes Inantity Pumped: gallons
System Pumped by (Company): Karl's Sit	
Contents transferred to:	
Contents disposed at:	
	2-11
Date Pumper Signature	and T.
Condition of system/other comments:	



03/01/2003 10:56 4135496115

KARL'S SITE WORK, INC.

327 RIVER DRIVE HADLEY, MA 01035 (413) 549-5396

KARLS EXCAVATING PAGE 01 DATE 0000034882 05/12/2005

Page: 1

Invoice

Tax:

PLEASE PAY FROM THIS INVOICE

STATEMENTS WILL NOT BE MAILED.

0.00

DEBBIE ROTH-HOWE To: 4 LADYSLIPPER CIRCLE

AMHERST, MA 01002-

PUMP&TRANSPORT

TERMS: 30 DAYS, 1-1/2% OVER 30 DAYS.

120.00 120.0000 1.0000 DISPOSAL FEE 4/25 0.00 Tax: 1000 GAL 90.00 90.0000 HR

1.0000

Invoice Totals

210.00 Gross 0.00 Tax

Invoice Totals 210.00

WHEN REMITTING PLEASE INCLUDE INVOICE NUMBER ON CHECK.