T-17-87

NPL-WT-2-237

1.6

National Priorities List

Superfund hazardous waste site listed under the
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended in 1986

PASCO SANITARY LANDFILL
Pasco, Washington

Pasco Sanitary Landfill covers 250 acres 1.5 miles northeast of Pasco, Franklin County, Washington, in an area dominated by irrigated agricultural fields and range land. The landfill is privately owned and operated and was converted from a burning dump to a sanitary landfill in 1971. Since 1982, it has had a conditional use permit from the Washington Department of Ecology (WDOE) to accept municipal wastes.

In 1972, Resource Recovery Corp. leased a portion of the landfill and operated a regional hazardous waste disposal site under a WDOE permit until December 1974, when the lease terminated.

According to WDOE files, over 47,000 drums of hazardous substances, including paint wastes, pesticides, organic solvents, cadmium, and mercury, were deposited in the leased portion of the landfill. In 1974, the area was covered by 3 feet of soil.

In 1985, EPA detected tetrachloroethylene and trichloroethylene in on-site ground water. A well on-site supplies drinking water to two nearby residences. Ground water within 3 miles of the site is used by over 1,000 people for drinking and is also used to irrigate almost 10,000 acres of land.

In October 1986, WDOE issued an Administrative Order requiring Pasco to monitor on-site wells on a quarterly basis. The company is currently complying with the order.

USEPA SF
1452415

NI-[illegible]-2-227

Facility name: Pasco Sanitary Landfill

Location: Pasco, Washington

EPA Region: 10

Person(s) in charge of the facility: Larry Dietrich

Name of Reviewer: Lynn Guilford Date: 5/27/87

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Resource Recovery Corporation operated a portion of Pasco Sanitary Landfill as a hazardous waste disposal site from 1972 to 1974. Currently the disposal areas are all covered with three feet of soil. This cover gives both the surface water and direct contact routes scores of 0. The ground water route has an observed release and a large ground water population giving the site an overall score of 44.46

Scores: S_M = 44.46 (S_{gw} = 76.92 S_{sw} = 0 S_a = 0)

S_{FE} = 0

S_{DC} = 0

FIGURE 1
HRS COVER SHEET

7-16-87

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 (45)	1	45	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2		6	
Net Precipitation	0 1 2 3	1		3	
Permeability of the Unsaturated Zone	0 1 2 3	1		3	
Physical State	0 1 2 3	1		3	
	Total Route Characteristics Score			15	
3 Containment	0 1 2 3	1		3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 (12) 15 18	1	12	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)	1	8	8	
	Total Waste Characteristics Score		20	26	
5 Targets					3.5
Ground Water Use	0 1 2 (3)	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 (40)	1	40	40	
	Total Targets Score		49	49	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			44100	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	76.92		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

7-17-87

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1		45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1		3	
1-yr. 24-hr. Rainfall	(0) 1 2 3	1		3	
Distance to Nearest Surface Water	(0) 1 2 3	2		6	
Physical State	(0) 1 2 3	1		3	
Total Route Characteristics Score			0	15	
3 Containment	(0) 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	(0) 3 6 9 12 15 18	1	0	18	
Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	(0) 1 2 3	3	0	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	
Total Targets Score			0	55	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5				64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

7-17-87

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S_a = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 / 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a = 0			

FIGURE 9
AIR ROUTE WORK SHEET

7-17-87

	S	S^2
Groundwater Route Score (S_{gw})	76.92	5916.69
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		5916.69
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		76.92
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		44.46

FIGURE 10
WORKSHEET FOR COMPUTING S_M

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Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = 0			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

7-17-87

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1		45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 (1) 2 3	1	1	3	8.2
3 Containment	(0) 15	1	0	15	8.3
4 Waste Characteristics Toxicity	(0) 1 2 3	5	0	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	(0) 1 2 3 4 5	4	0	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			0	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100		S_{DC} =	0		

FIGURE 12
DIRECT CONTACT WORK SHEET

Martha D Fadel
7-17-87

ecology and environment, inc.
101 YESLER WAY, SEATTLE, WASHINGTON, 98104, TEL. 206/624-9537
International Specialists in the Environment

DOCUMENTATION RECORDS

FOR

HAZARD RANKING SYSTEM

Instructions: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility/site. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste Quantity = 4320 drums plus 800 cubic yards of sludges"). The source of the information should be provided for each entry and should be a biographical-type reference that will make the source used for the data point easier to find. Include the location of the source and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Pasco Sanitary Landfill

LOCATION: Kahlotus Road and Highway 12
Pasco, Washington 99301

REVIEWER: Lynn Guilford

TDD: TDD F10-8701-04

ECOLOGY AND ENVIRONMENT, INC.

DATE: June 1987

7-17-87

recycled paper

GROUND WATER ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected (5 maximum) in Ground Water

Tetrachloroethylene was found in monitoring well EE2.
Trichloroethylene was found in monitoring wells EE2, EE3, and JUB 2.
The levels found were significantly over background (JUB-CNTR)

- Rationale for attributing the contaminants to the facility:

These compounds, tetrachloroethylene and trichloroethylene, were not found in background wells, but were only found in wells downgradient and adjacent to zone A and the old landfill burn and demolition disposal area. Paint wastes were disposed in Zone A.

HRS Section Score: 45 (Ref. 1 p.50)

* * * * * * * * * *

2. ROUTE CHARACTERISTICS

2a. Depth to Aquifer of Concern

- Name and description of aquifer(s) of concern:
Water table aquifer, unconfined, which overlies Yakima Basalts. Groundwater occurs 38.5 to 68.7 feet below ground surface at site. See table 4.1 and figures 4.2 and 4.3 of Reference 1 for description of geologic units and cross-sections.

HRS Section Score: (Ref.)

2b. Net Precipitation

- Mean annual or seasonal precipitation (list months for seasonal):

- Mean annual lake evaporation rate (list months for seasonal):

- Net precipitation (subtract above figures):

HRS Section Score: (Ref.

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2c. Permeability of Unsaturated Zone

- Soil type in unsaturated zone:

- Permeability associated with soil type:

HRS Section Score: (Ref.)

2d. Physical State

- Physical state of substance at time of disposal (or at present time for generated gases):

HRS Section Score: (Ref.)

* * * * * * * * * *

3. CONTAINMENT

3a. Containment

- Method(s) of waste or leachate containment evaluated:

- Method with highest score:

HRS Section Score: (Ref.)

* * * * * * * * * *

4. WASTE CHARACTERISTICS

4.a Toxicity and Persistence

- Compound(s) evaluated:

Compound	Toxicity	Persistence	Total
Trichloroethylene	2	2	12
Tetrachloroethylene	2	2	12

- Compound(s) with highest score:

Tetrachloroethylene and Trichloroethylene

HRS Section Score: 12 (Ref. 2)

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4b. Hazardous Waste Quantity

- Total amount of hazardous substance at the facility, excluding those with a containment score of zero. (Give a reasonable estimate, even if the quantity is above maximum.):

  The total waste quantity is estimated to be approximately 47,000 drums.

- Basis of estimating and/or computing waste quantity (must be documented quantity and not assumed):

  Paint Wastes - 26,426 drums
  2,4-D Mfg. wastes - 5,080 drums
  Carcinogenics - 9 drums
  Aromatic Tar -1,159 drums
  Cadmium Waste - 11 drums
  Pesticides - 425 drums
  Metal Finishing/Cleaning - 10,947 drums
  Solvents - 253 drums
  Barium with Mercury - 2,896 drums

HRS Section Score: 8 (Ref. 1,3,4,5)

* * * * * * * * * *

5. TARGETS

5a. Ground Water Use

- Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

  Ground water is used for drinking water and irrigation within three miles of the site. Some of the wells used for drinking water are beyond the perimeter of the public water supply system.

HRS Section Score: 3 (Ref. 6,7,8, 9,10,11,12,13)

5b. Distance to Nearest Well

- Location of nearest well drawing from the "aquifer of concern" or occupied building not served by a public water supply:

  SW 1/4, NW 1/4, Section 22, Township 9N, Range 30E.

- Distance from site to above well or building:

  The well is on site, approximately 800 feet north of monitoring wells EE2, EE3, and JUB 2, which are contaminated.

HRS Section Score: 4 (Ref. 11,13)

5c. Population Served by Ground Water within a 3-Mile Radius

- Identify water supply well(s) drawing from the "aquifer of concern" within a 3-mile radius and populations served by each:

See sheet 4A

Total 1048

- Compute land area irrigated by supply well(s) drawing from the "aquifer of concern" and convert to population (1.5 people per acre):

See Sheets 4B,C,D

- Total population served by ground water:

1048 + 14820 = 15868

HRS Section Score: 40 (Ref. 7,8,9, 10,11,12,13,14)

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Pasco Sanitary Landfill

6/5/87

GW used for drinking water within 3 miles of above site

Name	Pop. Served	Reference #
1. Washington Idaho Laborers	3.8	7
2. Paul Savage	3.8	7
3. Al Yenney	3.8	7
4. Tom Kidwell	3.8	7
5. Van Wormer	3.8	7
6. Lakeview Mobile Home Park	800	8
7. Rada Sons	16	8
9. AZTLAN Construction Inc	20	8
10. BPA - Franklin	16	8
11. Bonne Brae Trailer Court	65	8
12. De Vries Water system	12	8
13. Palmarez	3.8	10
14. Marquez	3.8	10
15. Johnson & Boxbaum	3.8	10
16. Bumgarner	3.8	10
17. Dall	3.8	10
18. Cunningham	3.8	10
19. Rasmussen	3.8	10
20. Western Farm Services	24	8
21. Frontier Machinery	50	8
Total	1048.6	

Martin A Baker
7-17-87

Pasco Sanitary Landfill

6/10/87

EW used for irrigation within 3 miles of above site:

Name	Acres	Reference #
Burlington Northern	520	9
"	130	
Conn Mut Life Ins	145	
Burlington Northern	520	
"	520	
"	300	
Middleton	142	
"	20	
Columbia East	268	
Burlington Northern	137	
"	160	
"	400	
"	315	
"	107	
"	300	
"	200	
Sullivan	20	
Burlington Northern	107	
"	300	
"	40	
Alderson	150	
Columbia East	500	
Burlington Northern	315	
"	40	
"	75	
Hill	15	
USCE	10	

Checked 7-17-87

Standard Oil	.75	9
Minnahan	40	
Conn Mut Life Ins	137	
Tippett	135	
"	160	
Conn Mut Life Ins.	160	
Worsham	157	
Cox	157	
"	5	
Conn Mut Life Ins	130	
"	155	
Worsham	157	
Burlington Northern	480	
WA ST DNR	520	
Columbia East	130	
Burlington Northern	130	
Seattle Hardware	4	
Close	1	
Modd	2	
Fanning	7	
Frontier Machinery	12.5	
Pasco, City of	15	
Columbia	268	
Dietrich	38	
Tomlinson	345	
Palomarez	26	
Burden	20	
Eastern Wa ID	5	
Spooner	1	
Reisinger	2	

Hartford Bubal 7-17-87

Reisinger	6.5	
Mann	10	
Johnson	5.5	
Lourdes	.5	
Pasco, City of	10	
Pasco, Port of	3	
Columbia East	495	
Story Hill	73	
	20	
USCE	100	
Total	9879.75	acres
	x 1.5	people per acre
	14820	people

Martha D Bodell
7-17-87

SURFACE WATER ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected in the Surface Water at the Facility or Down Gradient from It (5 maximum)

No observed release.

- Rationale for attributing contaminants to the facility:

HRS Section Score: (Ref.)

* * * * * * * * * *

2. ROUTE CHARACTERISTICS

2a. Facility Slope and Intervening Terrain

- Average slope of facility/site in percent:

The site is relatively flat (less than 1%).

- Name description of nearest down-slope surface water:

The only down slope water within two miles is a man-made dairy pond.

- Average slope of terrain between facility and above-cited surface water body in percent:

The average slope is less than 1%.

- Is the facility located either totally or partially in surface water?
Yes / No (circle one)

- Is the facility completely surrounded by areas of higher elevation?
Yes / No (circle one)

HRS Section Score: 0 (Ref. 1,12,13)

2b. 1-Year 24-Hour Rainfall in Inches

Less than 0.75

HRS Section Score: 0 (Ref. 2)

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2c. Distance to Nearest Down-slope Surface Water

The man-made dairy pond is approximately 1,500 feet southwest of the site. No natural water is located within two miles of the site.

HRS Section Score: 0 (Ref. 1,12,13, 15,16)

2d. Physical State of Substance at Time of Disposal

No known waste is available to surface water migration.

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

3. CONTAINMENT

3a. Containment

- Method(s) of waste or leachate containment:

All known hazardous wastes have been covered,

- Method with highest score:

All known hazardous wastes are covered with three feet of soil, four mil polyethylene sheeting, and capped with an additional two feet of soil.

HRS Section Score: 0 (Ref. 1)

* * * * * * * *

4. WASTE CHARACTERISTICS

4a. Toxicity and Persistence

- Compound(s) evaluated:

Compound	Toxicity	Persistence	Total

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- Compound(s) with highest score:

No known compounds are available to migration.

HRS Section Score: 0 (Ref. 1)

4b. Hazardous Waste Quantity

- Total amount of hazardous substance at the facility/site, excluding those with a containment score of zero. (Give a reasonable estimate, even if the quantity is above maximum.):

No known waste is available to surface water migration.

- Basis of estimating and/or computing waste quantity (must be documented and not assumed):

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

5. TARGETS

5a. Surface Water Uses

- Use(s) of surface water within 3-miles downstream of the hazardous substance:

No natural surface water is used within two miles of the site and no known hazardous wastes are available to migration.

- Is there tidal influence? Yes / No (circle one)

HRS Section Score: (Ref. 1)

5b. Distance to Sensitive Environment

- Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

- Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

- Distance to critical habitat of federal endangered species or national wildlife refuge, if 1 mile or less:

HRS Section Score: 0 (Ref. 1

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5c. Population Served by Surface Water

- Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static bodies) downstream of the hazardous substance and population served by each intake:

  No known wastes are available to surface water. No natural surface water is located within two miles of the site.

- Compute land area irrigated by above-cited intake(s) and convert to population (1.5 people per acre):

- Total population served: 0

- Name and description of nearest above-cited water bodies:

- Distance from probable point of entry to above-cited intakes (stream miles):

HRS Section Score: 0 (Ref. 1,12,13, 15,16)

* * * * * * * * * *

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AIR ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected in Ambient Air

None observed.

- Date and location of detection of contaminants:

- Method used to detect contaminants:

- Rationale for attributing contaminants to the site:

HRS Section Score: 0 (Ref. 1,15)

* * * * * * * * * *

2. WASTE CHARACTERISTICS

2a. Reactivity and Incompatibility

- Most reactive compound:

- Most incompatible pair of compounds:

HRS Section Score: (Ref.)

2b. Toxicity

- Most toxic compound:

Compound	Toxicity

HRS Section Score: (Ref.)

2c. Hazardous Waste Quantity

- Total quantity of hazardous waste at the facility/site:

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- Basis of estimating and/or computing waste quantity:

HRS Section Score: (Ref.)

* * * * * * * * * *

3. TARGETS

3a. Population Within 4-mile Radius

- Enter data under respective radius and indicate how determined:

0 to 4 miles	0 to 1 mile	0 to 1/2 mile	0 to 1/4 mile

HRS Section Score: (Ref.)

3b. Distance to Sensitive Environment

- Distance to 5-acre (minimum) coastal wetlands, if 2 miles or less:

- Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

- Distance to critical habitat of an endangered species, if 1 mile or less:

HRS Section Score: (Ref.)

3c. Land Use

- Distance to commercial/industrial area, if 1 mile or less:

- Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

- Distance to residential area, if 2 miles or less:

- Distance to agricultural land in production within past 5 years, if 1 mile or less:

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- Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

- Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site:

HRS Section Score: (Ref.)

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FIRE AND EXPLOSION

FIRE MARSHAL'S STATEMENT:

This site poses no fire/explosive potential (Ref. 16).

1. CONTAINMENT

- Hazardous substance present:

- Type of containment, if applicable:

HRS Section Score: (Ref.)

* * * * * * * * * *

2. WASTE CHARACTERISTICS

2a. Direct Evidence

- Type of Instrument and Measurement:

HRS Section Score: (Ref.)

2b. Ignitability

- Compound considered:

HRS Section Score: (Ref.)

2c. Reactivity

- Most reactive compound:

HRS Section Score: (Ref.)

2d. Incompatibility

- Most incompatible pair of compounds:

HRS Section Score: (Ref.

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2e. Hazardous Waste Quantity

- Total quantity of hazardous substance(s) at the facility/site:

- Basis for estimating and/or computing waste quantity:

HRS Section Score: (Ref.)

* * * * * * * * * *

3. TARGETS

3a. Distance to Nearest Population

HRS Section Score: (Ref.)

3b. Distance to Nearest Building

HRS Section Score: (Ref.)

3c. Distance to Nearest Sensitive Environment

- Distance to wetlands:

- Distance to critical habitat:

HRS Section Score: (Ref.)

3d. Land Use

- Distance to commercial/industrial area, if 1 mile or less:

- Distance to national or state park, forest, or wildlife refuge, if 2 miles or less:

- Distance to residential area, if 2 miles or less:

- Distance to agricultural land in production within past 5 years, if 1 mile or less:

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- Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

- Is a historic or landmark site within view of the site?
  Yes / No (circle one)

HRS Section Score: (Ref.)

3e. Population Within 2-Mile Radius

HRS Section Score: (Ref.)

3f. Buildings Within 2-Mile Radius

HRS Section Score: (Ref.)

7-17-87

DIRECT CONTACT

1. OBSERVED INCIDENT

1a. Date, Location, and Pertinent Details of Incident

No observed incident reported.

HRS Section Score: 0 (Ref. 1,15)

* * * * * * * * * *

2. ACCESSIBILITY

2a. Describe Type of Barrier(s)

Site is not fenced. However, the operator's residence is on site.

HRS Section Score: 1 (Ref. 17)

* * * * * * * * * *

3. CONTAINMENT

3a. Type of Containment, if Applicable

The known hazardous waste is covered with three feet of soil, four mil polyethylene sheeting, and capped with an additional two feet of soil.

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

4. WASTE CHARACTERISTICS

4a. Toxicity

- Compounds evaluated:

Compound	Toxicity
No compounds available for contact.	

- Compound with highest score:

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HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

5. TARGETS

5a. Population Within 1-mile Radius of Site

No compounds available for contact.

HRS Section Score: (Ref. 1)

5b. Distance to Critical Habitat (of Endangered Species)

HRS Section Score: (Ref.)

* * * * * * * * * *

7-17-87

REFERENCES

1. Ecology and Environment, Inc., June 1986. Final Report for Resource Recovery Corporation, Pasco, Washington.

2. U.S. Environmental Protection Agency (USEPA), 1984, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual. 47FR 31220-31241.

3. Kimberly Jr., John R., President, Resource Recovery Corporation, July 2, 1980. Letter to Department of Ecology.

4. Washington Department of Ecology, Dec. 1973. Industrial Waste Disposal Site Evaluation.

5. Resource Recovery Corporation, June 11, 1973 to January 17, 1975, Monthly Waste Summaries to Washington Department of Ecology.

6. Personal Communication, May 27, 1987. Pat Barttels, City of Pasco Engineering Department, Engineering Technician, to Charles F. Pitz, E&E, Seattle.

7. Washington State Well Logs.

8. State of Washington Public Water Supply System Listing.

9. Washington State Water Rights Data.

10. U.S. Geological Survey Well Records.

11. Washington State Well Log for John Dietrich's Well located at SW 1/4, NW 1/4, Sec. 22, T9N, R30E.

12. U.S. Geological Survey (USGS), 1964. Pasco, Washington, Quadrangle Map, 7.5 Minute Series, Photo Revised 1973.

13. U.S. Geological Survey (USGS)), 1979. Glade, Washington Quadrangle Map, 7.5 Minute Series.

14. Personal Communication, May 28, 1987. Cindy Christian, Washington Department of Ecology, Eastern District Office, to Charles F. Pitz, E&E, Seattle.

15. Personal Communication, May 29, 1987. Jean Tomlinson to Gloria Skinner, E&E, Seattle.

16. Personal Communication, June 1, 1987. Don Carter, Franklin County Fire Marshall to Gloria Skinner, E&E, Seattle.

17. Ecology and Environment, Inc., January 1985. Preliminary Site Inspection Report of Resource Recovery Corporation, Pasco, Washington.

18. Personal Communication with Richard Heinemayer, 7/17/87

7-17-87

NPL-117-2-227A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

MAY 17 1988

MEMORANDUM

SUBJECT: Municipal Landfill Support Documentation

FROM: Scott Parrish, Chief
Hazard Ranking and Listing Branch

TO: The Record

In an effort to ensure that the worst sites are being addressed first, the Agency has elected to require some special documentation for sites considered to be municipal landfills. This position was detailed in an August 21, 1987 memorandum from Henry Longest II to the Regional Offices. Consequently, for each municipal landfill being proposed in Update #7 to the National Priorities List, a cover letter is being included with the Hazard Ranking System package. This cover letter summarizes the health and environmental concerns at the landfill. Specifically, the cover letter examines the site history to indicate the types of materials disposed or believed disposed at the site (if known), presents any monitoring data indicating a release from the site, and provides a general assessment of the environmental and public health risks at the site.

Attached is the municipal landfill cover letter for this site.

Attachment

REFERENCE 5

Resource Recovery Corporation
P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

RECEIVED
JUN 12 1973
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

June 11, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99207

Dear Mr. Arnquist:

Conditions A6, A11 and C4 of DOE Water Discharge Permit #5301 require monthly reports. Please find below the data required by these conditions for the month of May, 1973.

Condition A6
Wastes received were:

Weed Killers - MCP Tar	487 drums
Paint Sludge	850 drums
Lime Sludge	16,629 gallons
Emulsion Cutting Oils	4,800 gallons
Pesticide Containers	250 each

Condition A11
No progress has been made in our research efforts concerning ponding of plating, wood treatment and paint wastes because we have received none of the wastes in bulk. Of interest, but not conclusive, is the fact that in connection with the discharge of the above noted lime sludge into an unlined pond the solids immediately coated the pond, perhaps in conjunction with the contents of the soil, so that the deepest penetration of moisture was in the neighborhood of 10 inches. This coating action coupled with the rapid evaporation characteristic of the area would appear to preclude the need for the lining of ponds for simple wastes of this type and should prove to be greatly in our

Resource Recovery Corporation

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BRANCH OFFICES
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Seattle, Washington 98108
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Pasco, Washington 99301

RECEIVED
JUL 25 1973
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

July 24, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99207

Dear Mr. Arnquist:

Conditions A6, A11 and C4 of DOE Water Discharge Permit #5301 require monthly reports. Please find below the data required by these conditions for the month of June, 1973.

Condition A6

Weed killers MC P Tar	240 drums
Paint Sludge	1,409 drums
Lime Sludge	16,047 gallons
Emulsion Cutting Oils	3,600 gallons
Pesticide Containers	360 each

As a recap, as of June 30, 1973, we had received a total of the following from Rhodia Corporation, Portland.

2, 4D Tar	2011 drums
MC P A Bleed	2965 drums
Other, Misc.	435 drums
Total	5411 drums

Condition A11

Again this month no progress has been made in our research efforts concerning ponding of plating, wood treatment and paint wastes since we still have received none of these wastes in bulk. We have prepared four ponds of the size we contemplate using (50' x 100') to the point where only the lining needs to be installed. The linings will be installed just prior to use.

Condition C4

Moisture sensor readings and test well monitoring results have remained constant all month indicating no liquids have been discharged during the period.

Resource Recovery Corporation
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OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

RECEIVED
OCT 9 1973
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

October 3, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, Washington 99207

Dear Mr. Arnquist:

Conditions A6, A11 and C4 of DOE Waste Discharge Permit #5301 require monthly reports. Please find below the data required by these conditions for the month of July, 1973.

Condition A6

Etching Solution	80 drums
Insecticide	191 drums
Weed Killers MCP Tar	72 drums
Paint Sludge	160 drums
Lime Sludge	31,700 gallons
Emulsion Cutting Oils	3,600 gallons
Pesticide Containers	400 empty containers
Metal Casting Waste	222 drums
Magnesia and Barium Sulfates Sludge Mercury Contaminated	340 tons
Garbage	3031 yards
Refuse Misc.	845 yards

Condition A11

Again this month no progress has been made in our research since we still have received none of these wastes in bulk. It is contemplated linings will be installed in the months of August or September.

Condition C4

Moisture sensor readings and test well monitoring results have remained constant all month indicating no liquids have been discharged during the period.

Sincerely,

Newt Clark
Secretary-Treasurer

cc: Stan Vendetti
Benton-Franklin Health District

Resource Recovery Corporation
P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

RECEIVED
OCT 9 1973
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

October 3, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, Washington 99207

Dear Mr. Arnquist:

Conditions A6, A11 and C4 of DOE Waste Discharge Permit #5301 require monthly reports. Please find below the data required by these conditions for the month of August, 1973.

Condition A6

Cleaning Solution NH_4 and NaOH	17,238 gallons
Metal Casting Waste	390 drums
Weed Killers MCP Tar	140 drums 680 pails
Paint Sludge	2331 drums
Lime Sludge	13,529 gallons
Emulsion Cutting Oils	3,600 gallons
Pesticide Containers	35 empty containers
Miscellaneous Lab Chemicals	29 small containers
Oil Separater Sludge	5,000 gallons
Magnesia Barium Sulfate Sludge	742 tons
Garbage	3865 yards
Refuse	963 yards

Condition A11

Again this month no progress has been made in our research efforts concerning ponding of plating, wood treatment and paint wastes since we still have received none of these wastes in bulk. Lining has been installed in one pond.

Condition C4

Moisture sensor readings and test well monitoring results have remained constant all month indicating no liquids have been discharged during the period.

Resource Recovery Corporation

P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 357-8443

RECEIVED
DEC 18 1973
DEPARTMENT OF ECOLO
SPOKANE REGIONAL OFFIC

December 14, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99207

Dear Mr. Arnquist:

Activity at the Pasco Disposal site during October, 1973 was as follows:

Received

Paint Waste (drums)	1,011
Barium Sludge (tons)	1,037
Chrome Rinse Water (gallons)	38,540
Cutting Oils (gallons)	6,000
Lime Sludge (gallons)	13,280

Our sensors and test well readings during the month were normal indicating no leaks or seepage.

We are still involved with the county over a land use permit.

Yours very truly,

James W. Moon
President

JWM/ebs

Recycled Paper

Resource Recovery Corporation

P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 357-8443

RECEIVED
DEC 18 1973
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

December 14, 1973

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99207

Dear Mr. Arnquist:

Activity at the Pasco Disposal site during the month of November, 1973 was as follows:

Received

Paint Waste (drums)	[illegible]
Lime Sludge (gallons)	[illegible]
Wood Preservative wastes (drums)	[illegible]
Wood Preservative wastes (gallons)	97,105
Cutting Oils (gallons)	[illegible]
Barium Sludge (tons)	[illegible]
Chrome Rinse Water (gallons)	[illegible]

Sensor and test well readings during the period indicated operations were normal.

Because of the continuing controversy over [illegible] business is not increasing as it should normally be expected to increase.

Yours very truly,

James W. Moon
President

JWM/ebs

Recycled Paper

Resource Recovery Corporation
P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

RECEIVED
APR 26 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

April 24, 1974

Mr. John Arnquist
Professional Engineer
Dept. of Ecology
East 103 Indiana Ave.
Spokane, Wash. 99207

Dear Mr. Arnquist:

Activity at the Pasco Disposal site during December 1973 was as follows:

Received

Paint Waste	445 drums
Barium Sludge	1,214 tons
Chrome Rinse Water	23,257 gallons
Cutting Oils	2,000 gallons
Meatls Finishing Waste	416 drums
Paint Waste - Cleaning	27,200 gallons
Wood treatment Waste	13,950 gallons
Metal Finishing Waste	8,500 gallons

Our sensors and test well readings during the month were normal, indicating no leaks or seepage.

Sincerely,

John R. Kimberly, Jr.
General Manager

JRK/rd

Resource Recovery Corporation
P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

RECEIVED
APR 26 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

April 24, 1974

Mr. John Arnquist
Professional Engineer
Dept. of Ecology
East 103 Indiana Ave.
Spokane, Wash. 99207

Dear Mr. Arnquist:

Activity at the Pasco Disposal site during January, 1974 was as follows:

Received

Paint Waste	992 drums
Barium Sludge	1,035 tons
Chrome Rinse	32,585 gallons
Wood Treating Waste	10,050 gallons
Tar Aromatic	88 drums
Cutting Oil Waste	4,000 gallons
Metal Finish Brine	5,500 gallons
Metal Finishing Waste	280 drums

Our sensors and test well readings during the month were normal, indicating no leaks or seepage.

Sincerely,

John R. Kimberly, Jr.

John R. Kimberly, Jr.
General Manager

JRK/rd

Resource Recovery Corporation
P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

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5501 Airport Way S.
Seattle, Washington 98108
P. O. Box 650
Pasco, Washington 99301

RECEIVED
APR 26 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

April 24, 1974

Mr. John Arnquist
Professional Engineer
Dept. of Ecology
East 103 Indiana Ave.
Spokane, Wash.

Dear Mr. Arnquist:

Activity at the Pasco Disposal site during February 1974 was as follows:

Received:

Paint Waste	725 drums
Barium Sludge	812 tons
Chrome Rinse	21,000 gallons
Wood Treatment Waste	57,000 gallons
Tar Aromatic	160 drums
Metal Finishing Waste	412 drums
Paint Waste - Cleaning	60,511 gallons
Metal Finishing Waste	16,520 gallons
Cutting Oil Waste	6,000 gallons

Our sensors and test well readings during the month were normal, indicating no leaks or seepage.

Sincerely,

John R. Kimberly

John R. Kimberly, Jr.
General Manager

JRK/rd

Resource Recovery Corporation

P. O. BOX 2431
OLYMPIA, WASHINGTON 98507
PHONE (206) 767-0355

BRANCH OFFICES
5501 Airport Way S.
Seattle, Washington 98108

P. O. Box 650
Pasco, Washington 99301

RECEIVED
MAY 6 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

May 2, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Ave.
Spokane, Wa 99207

Dear Mr. Arnquist:

Activity at the Pasco disposal site during the month of March, 1974 was as follows:

Received

Paint Waste	921 drums
Metal Finishing Waste	336 drums
Wood Preservative Waste	9,437 gallons
Barium Sludge	1,178 Tons
Chrome Rinse	17,769 gallons
Metal Finishing Waste	12,650 gallons
Paint Waste	8,000 gallons
Wood Treatment Waste	67,120 gallons
Cutting Oil Waste	2,000 gallons

Our sensors and test well readings during the month were normal, indicating no leaks or seepage.

Sincerely,

John R. Kimberly Jr.
President
Resource Recovery Corporation

JRK/dr

Resource Recovery Corporation
5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

RECEIVED
JUL 19 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

July 17, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco disposal site during the month of April, 1974, was as follows:

Barium Sludge	1,096 tons
Paint Waste	1,018 drums
Metal casting wastes	336 drums
Chrome Rinse	217,800 lbs.
Plywood resin waste	258,480 lbs.
Metal finishing waste	299,220 lbs.
Cutting oil	2,000 gallons
Resin Mfg. waste	31,247 gallons

Sensors and test well readings were normal. The Chrome Rinse, plywood resin waste, and metal finishing waste were expressed in gallons previously. Since the material is weighed rather than measured, I am expressing them as pounds.

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation
5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

July 17, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco disposal site during the month of May, 1974 was as follows:

Barium sludge	1,233	tons
Metal finishing waste	171,540	pounds
Chrome rinse	170,710	"
Plywood resin wastes	130,810	"
Resin Mfg. waste	4,752	gallons
Metal finishing waste	3,800	"
Cutting oil	4,000	"
Paint Waste	762	drums
Metal casting waste	336	"

Sensors and test well readings were normal.

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation
5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

July 17, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco disposal site during the month of June, 1974, was as follows:

Barium Sludge	233	tons
Chrome Rinse	173,890	pounds
Plywood resin waste	130,360	"
Metal finishing waste	131,220	"
Paint and solvent waste	72,475	"
Detergent metal wash	10,500	gallons
Resin mfg. waste	18,773	"
Cutting Oil waste	2,000	"
Paint waste	582	drums
Metal casting waste	448	"

This will be the last barium sludge until fall as Weyerhaeuser finished cleaning out their pits and are now starting to accumulate material again.

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation
5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

RECEIVED
AUG 9 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

August 6, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of July, 1974, was as follows:

Plywood Resin waste	171,910	pounds
Acid Wash Solution	89,400	"
Oily Sludge	54,340	"
Acid Sludge	1,000	gallons
Resin Mfg. waste	5,073	"
Cutting Oil waste	6,000	"
Paint waste	1,028	drums
Metal Casting waste	336	"

As you can see, business is down drastically due to the restraint on accepting new business. I have had to refuse two large requests with lead oxide contamination and one with 50 to 70 ppm mercury. I did not check to see where they eventually did dispose of these wastes.

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation

5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

RECEIVED
SEP 14 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

September 11, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of August, 1974 was as follows:

Plywood Resin Waste	176,770	pounds
Acid Wash Solution	222,950	"
Metal Finishing Waste	89,680	"
Oily Sludge	112,340	"
Resin Mfg. Waste	19,746	gallons
Metal Rinse Solution	35,724	"
Cutting Oil Waste	4,000	"
Paint Waste	596	drums
Metal casting waste	374	"
Metal finishing waste	26	"

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation

5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

RECEIVED
OCT 12 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

October 9, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of September, 1974 was as follows:

Solidified Caustic Soda	44,550	Pounds
Paint Wastes	111,280	"
Metal Finishing Waste	182,580	"
Plywood Resin Waste	43,310	"
Fertilizer Mfg. Waste	158,068	"
Cutting Oil Waste	7,500	gallons
Resin Mfg. Waste	37,794	"
Oily Sludge	162	drums
Paint Waste	632	"
Metal Casting Waste	527	"
Chemistry Lab Reagents	1	"

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation

5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

RECEIVED
NOV 8 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

November 6, 1974

Mr. John Arnquist
Professional Engineer
Department of Ecology
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of October, 1974 was as follows:

Paint Waste	61,900	Pounds
Metal Finishing Waste	174,960	"
Plywood Resin Waste	133,450	"
Barium Sludge	504,900	"
Cutting Oil Waste	3,500	Gallons
Resin Mfg. Waste	58,912	"
Paint Waste	192	Drums
Oily Waste	271	"
Metal Casting Waste	285	"

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly Jr. /mam

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation
5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P. O. Box 650
Pasco, Washington 99301

RECEIVED
DEC 23 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

December 19, 1974

Mr. John Arnquist
Professional Engineer
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of November, 1974 was as follows:

Barium Sludge	303	Tons
Paint Waste	34,540	Pounds
Metal Finishing Waste	266,560	"
Plywood Resin Waste	130,230	"
Benzoic Acid and Tars	176,000	"
Cutting Oil Waste	5,000	Gallons
Resin Mfg. Wastes	103,756	"
Paint Waste	628	Drums
Metal Casting Waste	504	"
Metal Finishing Waste	80	"

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly

John R. Kimberly, Jr.
President

JRK/mam

Resource Recovery Corporation

5501 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98108
PHONE (206) 767-0355

BRANCH OFFICE:
P.O. Box 650
Pasco, Washington 99301

RECEIVED
JAN 20 1975
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

January 17, 1975

Mr. John Arnquist
Professional Engineer
East 103 Indiana Avenue
Spokane, WA 99027

Dear Mr. Arnquist:

The activity at the Pasco landfill site during the month of December, 1974 was as follows:

Paint Waste	59,058	Pounds
Fertilizer Mfg. Waste	70,220	"
Metal Finishing Waste	633,892	"
Plywood Resin Waste	218,060	"
Resin Mfg. Waste	112,500	Gallons
Cutting Oil Waste	3,000	"
Bilge Cleanings	1,000	"
Paint Wastes	624	Drums
Metal Finishing Waste	118	"
Metal Casting Waste	448	"

This will be the last report on the Pasco site.

Sincerely,

RESOURCE RECOVERY CORP.

John R. Kimberly, Jr.

John R. Kimberly, Jr.
President

JRK/mam

REFERENCE 6

ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

CONTACT REPORT

MEETING: ( ) TELEPHONE: (✓) OTHER:

REFERENCE NUMBER:

CLIENT:

ADDRESS:

PERSON CONTACTED and TITLE: PAT BARTTELS - ENGINEERING TECHNICIAN CITY of PASCO ENGINEERING DEPT.

PHONE: 509-545-3441

FROM: CHARLES F. PITZ

TO:

ATTENDEES:

DATE: 5/27/87 - 1015

CC: G. Neumaier, Central File

Contact was made to Pasco Engineering Dept. to confirm the geographic limits of the public water supply system between the City of Pasco and the Pasco Sanitary Landfill. Concluded from the information given that there are definitely wells beyond the perimeter of public supply service that are within a 3 mile radius of the landfill. Mr. Bartels is unsure whether or not the well #9/30-28M1 is tied into the city system - recommends a contact Dennis Wright, City Engineer for Pasco.

CFP

Charles F. Pitz

recycled paper

REFERENCE 7

First Copy with Water Management
Owner's Copy
Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON No. 21

Application No. .....
Permit No. G3-20480

(1) OWNER: Name BURLINGTON NORTHERN Address .....

(2) LOCATION OF WELL: County FRANKLIN Cont ¼ NW ¼ Sec. 15 T. 9 N. N. R. 30E W.M.
Give distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 36
New well ☒ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Cable ☒ Rotary ☐ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 16" inches.
Drilled 143 ft. Depth of completed well 143 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 16" Diam. from 0 ft. to 9 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used Mills Knife
SIZE of perforations 3/8" in. by 3" in.
400 perforations from 113 ft. to 137 ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Puddly Clay
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 477 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Black Sand	0	15 ft
Black Sand & Basalt Gravel	15	32 ft
Basalt Gravel	32	45 ft
Broken Basalt	45	60 ft
Basalt Gravel & Black Sand	60	62 ft
Broken Basalt	62	72 ft
Clay & Basalt Gravel	72	79 ft
Clay	79	100 ft
Clay & Sand	100	104 ft
Clay & Basalt Gravel	104	106 ft
Clay, Sand & Gravel	106	112 ft
Gravel Sand & Water @ 113	112	115 ft
Sand & Gravel	115	118 ft
Black Sand & Gravel 137	118	140 ft
Bed Rock	140	143 ft
Basalt		

RECEIVED
SEP 17 1976
WA DOE Eastern Dist. Office
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started ....., 19..... Completed ....., 19.....

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME St. George Drilling Co. (Person, firm, or corporation) (Type or print)
Address 701 So. 45th Ave
[Signed] (Well Driller)
License No. 0482 Date 3-15, 1974

1/1/76

ADDITIONAL SHEETS IF NECESSARY

ART = 422 4/30 - 27P1

(1) OWNER: Name Washington Idaho Laboners Address 3021 E. Francis Spokane Wn. 99207

(2) LOCATION OF WELL: County Franklin N½, NE¼ SE ¼ SW ¼ Sec 27 T. 9 N. R. 30 W.

(Bearing and distance from section or subdivision corner)

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 135 ft. Depth of completed well 135 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from #1 ft. to 125 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Johnson
Type Stainless Steel Model No.
Diam. 8 Slot size 20 from 125 ft. to 135 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Berkeley
Type: Submircible H.P. 5

(8) WATER LEVELS: Land-surface elevation above mean sea level 424 ft.
Static level 74 ft. below top of well Date 8/80
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 50 gal./min. with 15 ft. drawdown after 2 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

MATERIAL	FROM	TO
Sand, some clay	0	5
Silty sand	5	11
3/4" minus gravel with sand & clay	11	12
Cemented gravel	12	16
Clay & gravel	16	24
Sand & silt	24	70
Yellow clay	70	76
Clay & gravel- up to 2" some water	76	84
Sand & water	84	104
Clay & sand - no water	104	109
Sand, large boulders some water	109	123
Sand & gravel with water	123	135

RECEIVED
OCT 3 1 1980
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 7-15, 1980. Completed 7-18, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B & H DRILLING (Person, firm, or corporation) (Type or print)

Address Rt. 3 Box 3365-A, Kennewick, Wn. 993

[Signed] H. A. Bultena (Well Driller)

License No. 0046 Date 9-8, 19

10/22/80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

(1) OWNER: Name Paul Savage Address 524 Rd 39 Pasco, Wa

(2) LOCATION OF WELL: County Franklin — SW¼ NW¼ Sec 27 T. 9 N., R. 30E W.M.

ng and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" inches.

Drilled 112 ft. Depth of completed well 112 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from ... ft. to ... ft.

Threaded ☐ ..." Diam. from ... ft. to ... ft.

Welded ☒ 8" Diam. from 0 ft. to 112 ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name

Type Model No.

Diam. Slot size from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ~~390~~ ft.

Static level ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 25 gal./min. with 6 ft. drawdown after 2 hrs.

Artesian flow g.p.m. Date

Temperature of water 62 Was a chemical analysis made? Yes ☐ No ☒

7/6/78

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

MATERIAL	FROM	TO
Silty sand	0	62
gray sand	62	99
Blk & Course sand	99	110
3/4 minus gravel + sand	110	112

RECEIVED
JUL 6 - 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

440

Work started 6/16, 1978 Completed 6/23, 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME L.W Smith Well Drillin (Person, firm, or corporation) (Type or print)

Address 9808 W. Argent, Pasco, Wa

[Signed] Loyd W Smith (Well Driller)

License No. 0985 Date 7/3, 1978

Pasco 7/2

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

Alt. Kelley (New) alt = 420

(1) OWNER: Name Kelley Farms Address

(2) LOCATION OF WELL: County Franklin ¼ SE ¼ NE ¼ Sec. 28 T. 9 N., R. 30 W.M.

Give distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 98 ft. Depth of completed well 97'6" ft.

(6) CONSTRUCTION DETAILS: 250 wall

Casing installed: 6 " Diam. from +1 ft. to 92 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Johnson

Type Stainless Steel Model No.

Diam. 6 Slot size 15 from 92 ft. to 97 ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: 406

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 25 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.

Static level 72 ft. below top of well Date 6-19-80

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test 30 gal./min. with 2 ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

2/6/84

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand TAN + Black	0	63
Sand Black + gravel 2" Minus	63	72
Sand Black + gravel 2" Minus Water Bearing	72	97½
Sand Tan + gravel 16" Ringold Type	97½	98'+
between Husky & Norm turn left. 222 Kohl Drive, locked up.		
before noon		

Work started 6-19, 1980. Completed 6-19, 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Nelson Well Drilling Inc (Person, firm, or corporation) (Type or print)

Address 10036 West Argent, Pasco

[Signed] James Nelson (Well Driller)

License No. 361 Date 6-19, 1980

(USE ADDITIONAL SHEETS IF NECESSARY)

Pasco

S. P. No. 7256—OS—(Rev. 4-71)

ECY-070-28

Third Copy — Driller's Copy

STATE OF WASHINGTON

Permit No. 63 [illegible]

(1) OWNER: Name City of Pasco Address

(2) LOCATION OF WELL: County ____ NW ¼ SW ¼ Sec 28 T. 9 N., R 30E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☒ Deepened ☐ Reconditioned ☐

Method: Dug ☐ Bored ☐ Cable ☐ Driven ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.

Drilled 73 ft. Depth of completed well 70 ft.

(6) CONSTRUCTION DETAILS: Set 40 allowable

Casing installed: 8 " Diam. from +1 ft. to 58 ft.

Threaded ☐ " Diam. from ft. to ft.

Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used

SIZE of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ? ft. to ft.

Screens: Yes ☒ No ☐ Johnson

Manufacturer's Name

Type Stainless Model No.

Diam. 8 Slot size 50 from ft. to ft.

Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 30 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 400 ft.

Static level 48 ft. below top of well Date

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☒ No ☐ If yes, by whom? Layne

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☐

6/7/85

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand Black	0	27
Sand Tan	27	36
Gravel 6" mins sand Tan Water Bearing @ 48'	36	52
Gravel Cemented	52	55
Gravel 6" mins sand tan	55	68
Sand Tan Gravel Trace	68	73

[illegible]

Irrigation well phone conversation w/ [illegible]

Work started 4-9, 1985. Completed 4-11, 1985

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Nelson Well Driller Inc (Person, firm, or corporation) (Type or print)

Address 1006 W Argent Pasco

[Signed] James Nelson (Well Driller)

License No. 361 Date 6-3, 1985

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

Send first Copy with
Ecology,
Owner's Copy
Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 1

Permit No. ....

OWNER: Name Tom Kiburz II Address PO Box 3029 Pasco Wash

LOCATION OF WELL: County Franklin NW ¼ SW ¼ Sec. 16 T. 9 N., R. 30 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 107 ft. Depth of completed well 107 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 71 ft. to 99 ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☑ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations ... in. by ... in.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type ... Model No.
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☑ No ☐ To what depth? 40 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Good Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ... H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 70 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom?
Yield: 30 gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand	0	78
Sand & Gravel	78	107

JUN 1 - 1981

Work started 3-19, 19 81. Completed 3-20, 19 81

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Northwest Water Wells Inc. (Person, firm, or corporation) (Type or print)
PO Box 1059
Address Hayden Lake Idaho 83835

[Signed] Duncan S. Lickford (Well Driller)

License No. 725 Date 3-30, 19 81

(USE ADDITIONAL SHEETS IF NECESSARY)

First Copy with Ecology
Owner's Copy
Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ....
Permit No. ....

OWNER: Name VAN WORMER Address [illegible]

LOCATION OF WELL: County [illegible] — ¼ NW ¼ Sec 17 T. 9 N., R. 30 W.M.

Bearing and distance from section or subdivision corner

PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....

New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well ..... inches.
Drilled 71½ ft. Depth of completed well 70½ ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from .... ft. to 16 ft.
Threaded ☐ ..." Diam. from .... ft. to .... ft.
Welded ☒ ..." Diam. from .... ft. to .... ft.

Perforations: Yes ☐ No ☒
Type of perforator used ....
SIZE of perforations .... in. by .... in.
.... perforations from .... ft. to .... ft.
.... perforations from .... ft. to .... ft.
.... perforations from .... ft. to .... ft.

Screens: Yes ☒ No ☐
Manufacturer's Name JOHNSON
Type TELESCOPE Model No. [illegible]
Diam. 2 Slot size .035 from 69½ ft. to 69½ ft.
Diam. .... Slot size .... from .... ft. to .... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ....
Gravel placed from .... ft. to .... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? .... Depth of strata ....
Method of sealing strata off ....

(7) PUMP: Manufacturer's Name PEERLESS
Type: SUB H.P. ....

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 25'-8" ft. below top of well Date 11-22-75
Artesian pressure .... lbs. per square inch Date ....
Artesian water is controlled by .... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? ....
Yield: 35 gal./min. with 1 ft. drawdown after 2 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 11-22-75
Bailer test .... gal./min. with .... ft. drawdown after .... hrs.
Artesian flow .... g.p.m. Date ....
Temperature of water 62 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
SOIL	0	3
BROWN SAND	3	30
BROWN SAND WITH GRAVEL	30	[illegible]
CHOCOLATE [illegible]	[illegible]	[illegible]
BLUE [illegible] HARD	[illegible]	[illegible]
BOULDERS	[illegible]	[illegible]

Work started Mar. 15, 19 75 Completed Mar. 22, 19 75

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME CASCADE DRILLING CO.
(Person, firm, or corporation) (Type or print)

Address PO DRAWER E, MERIDIAN

[Signed] [illegible]
(Well Driller)

License No. 0446 Date 4-22, 19 75

(USE ADDITIONAL SHEETS IF NECESSARY)

G. P. No. 7356—OS—(Rev. 4-71).

REFERENCE 8

ID NO. SYSTEM NAME | COUNTY | CLASS
SYSTEM MAILING ADDRESS | CITY, ST ZIP
MANAGER/OWNER NAME | TELEPHONE | ACTUAL | POTEN
BACTI SAMPLING SCHEDULE | JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
POPULATION
SOURCE NO. SOURCE NAME | CATEGORY TYPE INTERTIE DEPTH CAPACITY TREATMENT | TWP RNG SEC

453103 LAKEVIEW MOBILE HOME PARK — FRANKLIN — Class: 1
% S 1505 RD 40E — PASCO, WA 99301
Mgr: RICHARD HEINEMEYER — 582-3271 — 206 — 0
Bacti: 1/month
Perm: 800

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1	WELL			103'	70	NONE.	34N 30E 1N
2	WELL			89'	350	NONE.	34N 30E 1N
3	WELL			99'	220	NONE.	34N 30E 1N
4	WELL			100'	490	NONE.	9N 30E 34

664003 PASCO WATER DEPARTMENT — FRANKLIN — Class: 1
PO BOX 293 — PASCO, WA 99301
Mgr: JAMES S. AJAX — (509) 545-3468 — 6,350 — 0
Bacti: 22/month
Perm: 19,100

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1 COLUMBIA RIVER	SURF	PRI.			12,500	CL2,COAG,SED,FILT.	9N 30E 3N

243059 RADA SONS — FRANKLIN — Class: 4
15 E ICE HARBOR DR — PASCO, WA 99301
Mgr: DOUG RADA — 545-1054 — 6 — 5
Bacti: once/12 months
Perm: 16

home address, not well
off "A" street between Lewis & main highway

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1 WELL #1	WELL	PRI.		100'	62	NONE.	9N 30E 28

739203 ROGERS-WALLA WALLA INC — FRANKLIN — Class: 2t
PO BOX 2324 — PASCO, WA 99302
Mgr: WILLIAM T. LAWR — (509) 547-3851 — 0 — 0
Bacti: once/ 3 months (#)
Perm: 0 Transitory: 500 500 500 500 500 500 500 500 500 500 500 500

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1 WELL # 1	WELL	PRI.		80'	180	CL2.	9N 30E 6N
2 WELL # 2	WELL	PRI.		87'	280	CL2.	9N 30E 6N
3 WELL # 3	WELL	PRI.		82'	185	CL2.	9N 29E 1R
4 WELL # 4	WELL	PRI.		83'	415	CL2.	9N 30E 6N

83545P STANDARD OIL OF CALIFORNIA — FRANKLIN — Class: 4
P O BOX 413 — PASCO, WA 99301
1 — 0
Bacti: once/12 months
Perm: 20

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1	WELL			350'		NONE.	9N 30E 35L

233268 WESTERN FARMS SERVICE INC — FRANKLIN — Class: 4t
E. 10005 MONTGOMERY — SPOKANE, WA 99206
Mgr: WAYNE DUFF — (509) 924-9213 — 0 — 0
Bacti: once/12 months
Perm: 0 Transitory: 24 24 24 24 24 24 24 24 24 24 24 24

Source	Cat.	Type	Intertie	Depth	Capacity	Treatment	TWP RNG SEC
1 WELL #1	WELL	PRI.		120'	80	NONE.	9N 30E 27 F

PUBLIC WATER SUPPLY SYSTEM LISTING
SHAFER/EPA

ID NO. SYSTEM NAME | COUNTY | CLASS
SYSTEM MAILING ADDRESS | CITY, ST ZIP
MANAGER/OWNER NAME | TELEPHONE | ACTUAL | POTEN
BACTI SAMPLING SCHEDULE | JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
POPULATION
SOURCE NO. SOURCE NAME | CATEGORY TYPE INTERTIE DEPTH CAPACITY TREATMENT | TWP RNG SEC

Q3520B AZTLAN CONSTRUCTION INC | FRANKLIN | Class: 4
2700 E LEWIS | PASCO, WA 99301
Mgr: DON NORVELL | (509) 545-1985 | 6 | 0
Bacti: once/12 months
Perm: 20
Source: 1 | WELL | 106' | NONE. | 9N 30E 28Q

076384 BONNEVILLE POWER ADMIN-FRANKLIN | FRANKLIN | Class: 4
22 PASCO-KAHLOTUS RD | PASCO, WA 99301
Mgr: BOB CUTRIGHT | 1 | 0
Bacti: once/12 months
Perm: 16
Source: 1 | WELL | 120' | NONE. | 9N 30E 27K

07665B BONNIE BRAE TRAILER COURT | FRANKLIN | Class: 2
2508 EAST LEWIS | PASCO, WA 99301
Mgr: ROBERT S LAWRENCE | (509) 545-4205 | 36 | 0
Bacti: once/ 3 months (#)
Perm: 65
Source: 1 WELL NO 1 | WELL PRI. | 120' | 300 NONE. | 9N 30E 28A

886856 DE VRIES WATER SYSTEM dairy | FRANKLIN | Class: 4
HC 32 BOX 1026 | PASCO, WA 99301
Mgr: GARY DE VRIES | (509) 545-4125 | 6 | 0
Bacti: once/12 months
Perm: 12
Source: 1 | WELL | 120' | 250 NONE. | 9N 30E 22G
Source: 2 | WELL | 120' | 250 NONE. | 9N 30E 22G
Source: 3 | WELL | 120' | 250 NONE. | 9N 30E 22G

266300 FRONTIER MACHINERY | FRANKLIN | Class: 3t
1707 EAST JAMES | PASCO, WA 99301
Own: AL-MAC DEVELOPMENT CO. | 0 | 0
Bacti: once/ 3 months
Perm: 0 Transitory | 50 50 50 50 50 50 50 50 50 50 50 50
Source: 1 WELL | WELL PRI. | 120' | 250 NONE. | 9N 30E Sec 2

33990R HOMMES HIDAWAY (motel) 2 blocks west of Radar | FRANKLIN | Class: 4t
2506 E LEWIS | PASCO, WA 99301
Mgr: LILLIAN T. HOMME | 547-3697 | 1 | 0
Bacti: once/12 months
Perm: 2 Transitory | 4 6 8 10 10 10 10 10 10 10 10 10
Source: 1 WELL # 1 | WELL PRI. | 91' | 30 NONE. | 9N 30E
Source: 2 WELL # 2 | WELL | 91' | 30 NONE.

D need S 28-1W
Qr'

REFERENCE 9

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 3 PAGE 1386 REPORT DATE 5/ 2/87

CONTROL # / PTS #	SEC #	OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY	PERMIT DATE	NAME	SOURCE OF APPROPRIATION	TRIBUTARY OF												
LOC. OF POD/POW		(CHG CH)		PURPOSE OF USE			USE TYPE	INST QI	C R S M U U	ANNUAL QA	C R S M U U	IRR AC	C S M U	PRO-VISOS	TIME OF USE	R R R I A C							
WATER RESOURCE INVENTORY AREA- 33																							
TOWNSHIP - 08 RANGE - 30 E																							
TOWNSHIP - 08 RANGE - 30 E																							
G3*04681C	01	04681	04445	04445	09/13/957		WALL	02/14/958	USFWS		WELL												
1 TR25 PASCO PWR / LIGHT LAND				IRRIGATION			C	500.0 G		684.0		171.0		A	IS								
G3*00760S	02	00760		00811	00/00/923		WALL	/ /	UMBARGER R W		WELL												
1 E2 11				DOMESTIC SINGLE			C	350.0 G 2		160.0	2												
				IRRIGATION			C	350.0 G 2		160.0	2	20.0			IS								
G3*08930C	02	08930	09244	05971	03/25/967		WELL	01/09/948	WALLA WALLA PORT D		WELL												
1 C12				DOMESTIC GENERAL			C	25.0 G 3		28.0				FN$									
				COMMERCIAL/INDUSTRIAL			C	25.0 G 3		12.0	2			FN$									
				FIRE PROTECTION			C	25.0 G 3		12.0	2			PN$									
G3*00540S	03	00540		00638	00/00/923		FRAN	/ /	BENNINGHOVEN C / E		WELL												
1 NW4SW4NE4				DOMESTIC SINGLE			C	600.0 G 2		350.0	2												
				IRRIGATION			C	600.0 G 2		350.0	2	120.0		X	IS								
G3*00541S	03	00541		00639	00/00/928		FRAN	/ /	BENNINGHOVEN C / E		WELL												
1 E2SE4NW4				IRRIGATION			C	350.0 G		250.0		120.0		X	IS								
G3-25597C	03				08/15/977		FRAN	08/15/978	NATIONAL MARINE FI		INFILTRATION TR												
1 NW4				FISH PROPAGATION			N	2550.0 G						$									
G3*07162C	03	07162	05043	03951	05/21/946		FRAN	05/28/947	WA ST PK&REC COMM		SNAKE R (WALLULA LK)				COL R (WALL LK)								
1 L19				DOMESTIC MULTIPLE			C	.15 C						S									
TOWNSHIP - 09 RANGE - 30 E																							
G3*08389PAL	01	08389	07843		11/09/966	S	FRAN	01/09/987	BURLINGTON NORTHER		WELLS												
2 NE4NW4				DOMESTIC MULTIPLE			C	1300.0 G 2		2.0				$P				5 5					
				IRRIGATION			C	1300.0 G 2		548.0		137.0		$P	IS			5 3 5					
G3*09966PAL	01	09966	09478		01/06/969	S	FRAN	01/09/987	BURLINGTON NORTHER		WELLS												
2 NE4NW4				DOMESTIC MULTIPLE			C	1600.0 G 2		2.0				$P				5 5					
				IRRIGATION			C	1600.0 G 2		582.0		160.0		$P	02011130			5 5 5					
G3-23784PAL	01				08/12/974	S	FRAN	07/09/975	VOSS RAYMOND G ET		WELLS												
2 GL-4				IRRIGATION			C	2500.0 G		969.4		185.0		PB$	01011231			2 2 2					
G3-23859PAL	01				07/06/974	S	FRAN	07/31/975	VOSS RAYMOND G		WELLS												
2 GL-4				IRRIGATION			C	2300.0 G		1383.0		302.0		PB$	01011231			2 2 2					
G3-24500PAL	01				05/07/975	S	FRAN	01/09/987	BURLINGTON NORTHER		WELLS												
2 NE4NW4				IRRIGATION			C	1470.0 G		428.0		107.0		$P	02011130			3 3 5					
G3-24528P	01				05/05/975	S	FRAN	03/13/976	BURLINGTON NORTHER		WELL												
1 GL-4				IRRIGATION			C	3375.0 G		1965.0		375.0		RIBW$	IS								
G3-24775PAL	01				01/15/976	S	FRAN	07/19/976	VOSS RAYMOND ET UX		WELLS												
2 GL-4				ENVIRONMENTAL QUALITY			C	1300.0 G 2						PB$				2 0 8					
				IRRIGATION			C	1300.0 G 2		838.66		160.0		PB$	IS			2 2 2					
G3-27029BAL	01				06/03/981	S	FRAN	01/09/987	BURLINGTON NORTHER		WELLS												
2 NE4NW4				IRRIGATION			C	2700.0 G		1200.0		300.0		$PK	02011130			5 6 6					
G3*10267P	02	10267	09823		06/18/969		FRAN	08/14/970	MARCHBA[illegible] ET AL		WELLS												
2 SE4				IRRIGATION			C	1500.0 G		[illegible]5.0		150.0		RB/Q	01011231								
G3-22491P	02				02/06/974	S	FRAN	06/14/974	TIPPETT ROBERT A		WELLS												
2 NW4 SE4 NW4 & NW4 SW4 NE4				IRRIGATION			C	2160.0 G		1136.0		240.0		PM$	03011101								
G3-22499P	02				02/06/974	S	FRAN	06/14/974	TIPPETT ROBERT A		WELL												
1 NW4SW4NE4				IRRIGATION			C	1440.0 G		744.0		160.0		$PMB	03011101								
G3-23867P	02				10/24/974		FRAN	07/03/975	TIPPETT ROBERT A		WELLS												
2 SE4NW4, SW4NE4				IRRIGATION			C	2400.0 G		1116.0		240.0		MPUB$	03011101								
G3-20245PAL	03				06/02/972	S	FRAN	10/16/985	BURLINGTON NORTHER		WELLS												
2 SW4SW4			X	IRRIGATION			C	5200.0 G		2101.6		520.0		RBM$	02011031			2 2 2					
G3-25175P	03				01/13/977	S	FRAN	10/16/983	BURLINGTON NORTHER		WELL												
1 SW4SW4			X	IRRIGATION			C	1200.0 G		529.0		130.0		$RK	01011231								
G3-24661C	10				11/08/975		FRAN	/ /	CONN MUT LIFE INS		WELL												
1 SE4NW4SW4			X	IRRIGATION			C	1400.0 G		535.0		145.0		RBW$	04011031								

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 3 PAGE 1387 REPORT DATE 5/ 2/87

CONTROL # / NOF P / PTS P	SEC / LOC. OF POD/POW	OLD APPL / (CHG CR)	OLD PERM / PURPOSE OF USE	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY / USE / TYPE	PERMIT DATE / INST / QI	NAME / C P S M U U	ANNUAL / QA / C P S M U U	IRR / AC / C S PRO- M U VISOS	SOURCE OF APPROPRIATION / TIME OF USE	TRIBUTARY OF / R R R I A C
WATER RESOURCE INVENTORY AREA- 33													
TOWNSHIP - 09	RANGE - 30 E												
G3-20245PBL 1	11 NW4NW4		X IRRIGATION		06/02/972	S	FRAN C	10/16/985 5200.0 G	BURLINGTON NORTHER WELL 2101.6		520.0	RBM$ 02011031	2 2 2
G3-20247P 4	11 NE4; NW4; SW4; SE4		X IRRIGATION		06/02/972	S	FRAN C	10/16/985 5200.0 G	BURLINGTON NORTHER WELLS 2101.6		520.0	DM$ 02011031	
G3*08389PBL 3	12 08389 SW4SE4; NW4SE4	07843	DOMESTIC MULTIPLE IRRIGATION		11/09/966	S	FRAN C C	01/09/987 1300.0 G 2 1300.0 G 2	BURLINGTON NORTHER WELLS 1.0 548.0		137.0	$R $R 15	5 5 5 5 5
G3*10897PBL 3	12 10897B SW4SE4; NW4SE4	10377B	IRRIGATION		05/20/970	S	FRAN C	01/09/987 4000.0 G	BURLINGTON NORTHER WELLS 1427.0		400.0	$R 03011031	5 5 5
G3-24508PBL 3	12 SW4SE4; NW4SE4		IRRIGATION		05/07/975	S	FRAN C	01/09/987 1470.0 G	BURLINGTON NORTHER WELLS 428.0		107.0	$R 02011130	5 5 5
G3-24546P 2	12 NW4NW4 & SW4NW4		IRRIGATION		08/07/975	S	FRAN C	10/23/985 1200.0 G	CONN MUT LIFE INS WELLS 689.6		118.0	$RK 01011231	
G3-27029BBL 3	12 SW4SE4; NW4SE4		IRRIGATION		06/03/981	S	FRAN C	01/09/987 2700.0 G	BURLINGTON NORTHER WELLS 1200.0		300.0	$RK 02011030	6 6 6
G3-27029BFL 2	13 SW4NW4		X IRRIGATION		06/03/981	S	FRAN C	01/09/987 2700.0 G	BURLINGTON NORTHER WELLS 1200.0		300.0	$RK 02011135	6 6 6
G3-24312C 1	14 NE4		X IRRIGATION		01/31/975		FRAN C	12/19/975 1400.0 G	MIDDLETON WILLIAM WELL 744.0		142.0	$ 01011231	
G3-25155A 1	14 E2NE4; NE4NE4		X IRRIGATION		04/05/966		FRAN C	/ / 300.0 G	MIDDLETON WILLIAM WELL		20.0	15	
G3-01177C 1	21 10696 SW4 NE4 SE4	09977	X IRRIGATION		03/11/970		FRAN C	11/23/970 666.0 G	COLUMBIA EAST LTD WELL 719.0 S		268.0	S MR 03011101	
G3*08389PCL 2	23 08389 NE4NE4	07843	X DOMESTIC MULTIPLE IRRIGATION		11/09/966	S	FRAN C C	01/09/987 1300.0 G 2 1300.0 G 2	BURLINGTON NORTHER WELLS 1.5 548.0		137.0	$R $R 15	5 5 5 5 5
G3*09966PCL 2	23 09966 NE4NE4	09478	X DOMESTIC MULTIPLE IRRIGATION		01/06/969	S	FRAN C C	01/09/987 1600.0 G 2 1600.0 G 2	BURLINGTON NORTHER WELLS 2.0 582.0		160.0	$R $R 02011130	5 5 5 5 5 5
G3*10897PCL 2	23 10897 NW4NW4	10377	X IRRIGATION		05/20/970	S	FRAN C	01/09/987 4000.0 G	BURLINGTON NORTHER WELLS 1427.0		400.0	$R 03011031	5 5 5
G3-20251PAL 3	23 NW4NW4/SW4SE4/NW4SW4		X IRRIGATION		06/02/972	S	FRAN C	02/13/983 2745.0 G	BURLINGTON NORTHER WELLS 2050.0		325.0	$RM 02011031	2 2 2
G3-24508PCL 2	23 NE4NE4		X IRRIGATION		05/07/975	S	FRAN C	01/09/987 1470.0 G	BURLINGTON NORTHER WELLS 428.0		107.0	$R 02011130	5 5 5
G3-27029BCL 2	23 NE4NE4		X IRRIGATION		06/03/981	S	FRAN C	01/09/987 2700.0 G	BURLINGTON NORTHER WELLS 1200.0		300.0	$RK 02011130	6 6 6
G3-27861I 1	23 SW4SE4		X IRRIGATION		08/17/984		FRAN C	03/29/985 1000.0 G	BURLINGTON NORTHER WELL 600.0		200.0	MSRK 15	
G3*08389PDL 4	24 08389 NW4NW4	07843	X DOMESTIC MULTIPLE IRRIGATION	no	11/09/966	S	FRAN C C	01/09/987 1300.0 G 2 1300.0 G 2	BURLINGTON NORTHER WELLS 1.0 548.0		137.0	$R $R 15	5 5 5 5 5
G3*09966PDL 4	24 09966 NW4NW4	09478	X DOMESTIC MULTIPLE IRRIGATION	no	01/06/969	S	FRAN C C	01/09/987 1600.0 G 2 1600.0 G 2	BURLINGTON NORTHER WELLS 2.0 582.0		160.0	$R $R 02011130	5 5 5 5 5 5
G3*10897PDL 4	24 10897 NW4NW4	10377	X IRRIGATION	no	05/20/970	S	FRAN C	01/09/987 4000.0 G	BURLINGTON NORTHER WELLS 1427.0		400.0	$R 03011031	5 5 5
G3-00672C 1	24 09298 E2 NW4 NW4	06617	X DOMESTIC SINGLE STOCK WATERING IRRIGATION		03/12/968		FRAN C C C	08/16/968 200.0 G 3 200.0 G 3 200.0 G 3	SULLIVAN ROBERT GU WELL 2.0 1.0 60.0		R R 20.0	04011031	
G3-24508PDL 4	24 NW4NW4		X IRRIGATION		05/07/975	S	FRAN C	01/09/987 1470.0 G	BURLINGTON NORTHER WELLS 428.0		107.0	$R 02011130	5 5 5
G3-27029BDL	24				06/03/981	S	FRAN	01/09/987	BURLINGTON NORTHER WELLS				

CONTROL # / EOP # PTS P LOC. OF POD/POW	SEC #	OLD APPL	OLD PERM	OLD CERT (CHG CE)	DATE OF PRIORITY / PURPOSE OF USE	S C A T C M	CNTY / USE TYPE	PERMIT DATE / INST QI	NAME / C R S M U U	ANNUAL QA / C R S M U U	SOURCE OF APPROPRIATION TRIBUTARY OF	IRR AC / C S M U	PRO-VISOS	TIME OF USE	P R P I A C
WATER RESOURCE INVENTORY AREA- 33															
TOWNSHIP - 09 RANGE - 30 E															
6 NW4NW4					X IRRIGATION		C	2700.0 G		1200.0		300.0	$RK	02011130	6 6 6
G3-26144BAL	25				01/22/979	S	FRAN	07/02/985	BURLINGTON NORTHER		WELL				
1 NW4SW4					X IRRIGATION		C	400.0 G		160.0		40.0	RMKS	01011231	2 2 2
G3-00401C	26	11913			05/20/971		FRAN	04/04/973	ALDERSON J R & R		WELL				
1 SW4NE4					X IRRIGATION		C	1440.0 G		786.0		150.0	RM$	03011131	
G3-00942C	26	12359	-----		12/31/971		FRAN	10/12/973	COLUMBIA EAST LTD		WELLS				
2 SE4NW4SW4,NE4SW4NW4					X IRRIGATION		C	4500.0 G		2500.0		500.0	MR$	03011101	
G3-20251PBL	26				06/02/972	S	FRAN	02/13/985	BURLINGTON NORTHER		WELL				
1 SW4NE4					X IRRIGATION		C	2745.0 G		1260.0		315.0	$RM	02011031	2 2 2
G3-26144BBL	26				01/22/979	S	FRAN	07/02/985	BURLINGTON NORTHER		WELLS				
2 SE4SE4					X IRRIGATION		C	400.0 G		160.0		40.0	RM$K	01011231	2 2 2
G3-27897I	26				09/27/984		WALL	07/24/985	BURLINGTON NORTH R		WELL				
1 W2SW4					X IRRIGATION		C	750.0 G		300.0		75.0	$RK	IS	
G3-01085C	34	07987	07487		03/01/966		FRAN	06/03/966	HILL CECIL C		WELLS				
3 N2SW4SE4					X DOMESTIC MULTIPLE		C	500.0 G 2		22.4			AETHM		
					IRRIGATION		C	500.0 G 2		60.0		15.0	AETHM	IS	
G3*02833C	35	02833	02740	01447	11/28/952		FRAN	05/08/953	TIDEWATER SHAVER		WELL				
1 GL-1					DOMESTIC SINGLE		C	100.0 G 2		160.0 2			AE		
					COMMERCIAL/INDUSTRIAL		C	100.0 G 2		160.0 2			AE		
G3-22493C	35				01/16/974		WALL	09/05/974	USCE		WELL				
1 GL6					DOMESTIC MULTIPLE		C	450.0 G 2		5.0			RH$		
					X IRRIGATION		C	450.0 G 2		42.83		10.0	RH$	03011031	
S3*11857C	35	11857	08689	05191	11/26/952		FRAN	02/20/953	STANDARD OIL CO CA		SNAKE R (WALLULA LK) COL R (WALL LK)				
1 L6					FIRE PROTECTION		C	.436 C					S		
					X IRRIGATION		C	.02 C				.75	S	04151001	
G3*02344C	36	02344	02215	02124	02/18/952		WALL	06/13/952	SOUTH COL BSN IRR		WELL				
1 SW4SW4SE4					DOMESTIC MULTIPLE		C	40.0 G		64.0					
G3*06117C	36	06117	05839	04249	11/28/961		WALL	05/25/962	BROWN GE / J D		WELL				
1 L5 PLAT RIVER PARK HEIGHTS					DOMESTIC SINGLE		C	28.0 G 2		12.0 2			A		
					IRRIGATION		C	28.0 G 2		12.0 2		3.0	AE	IS	
G3-22246C	36				12/14/973		WALL	11/06/974	CARLSON WALTER E		WELL				
1 SW4 SE4 NW4					DOMESTIC SINGLE		C	30.0 G 2		1.0			R$		
					IRRIGATION		C	30.0 G 2		7.35		2.0	R$	01011231	
G3-25013C	36				08/03/976		WALL	12/07/977	CARLSON WALTER E		WELL				
1 L-4 BL-1 CARLSON PL #1					DOMESTIC MULTIPLE		C	140.0 G 2		10.0			R$		
					IRRIGATION		C	140.0 G 2		31.0		6.68	R$	01011231	
TOWNSHIP - 09 RANGE - 31 E															
G3*10897PAL	01	10897A	10377A		05/20/970	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
2 NE4NW4					IRRIGATION		C	4000.0 G		1427.0		400.0	$R	03011031	5 5 5
G3-25017B	06				05/21/985		FRAN	08/28/986	KENNEDY JOHN D		WELL				
1 GL-1					DOMESTIC MULTIPLE		C	350.0 G 2		2.0			$MRK		
					IRRIGATION		C	350.0 G 2		164.0		40.0	$MRK	IS	
G3*08389PEL	07	08389	07843		11/09/966	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
1 NW4NW4					DOMESTIC MULTIPLE		C	1300.0 G 2		1.0			$R		5 5
					IRRIGATION		C	1300.0 G 2		548.0		137.0	$R	IS	5 5 5
G3*09968PEL	07	09968	09470		01/08/969	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
1 NW4NW4					DOMESTIC MULTIPLE		C	1600.0 G 2		2.0			$R		5 5
					IRRIGATION		C	1600.0 G 2		582.0		160.0	$R	02011130	5 5 5
G3*10897PEL	07	10897	10377		05/20/970	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
1 NW4NW4					IRRIGATION		C	4000.0 G		1427.0		400.0	$R	03011031	5 5 5
G3-24500PEL	07				05/07/975	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
1 NW4NW4					IRRIGATION		C	1470.0 G		428.0		107.0	$R	02011130	5 5 5
G3-27029BEL	07				06/03/981	S	FRAN	01/09/987	BURLINGTON NORTHER		WELL				
1 NW4NW4					IRRIGATION		C	2700.0 G		1200.0		300.0	$RK	02011130	6 6 6

06/08/87 15:11 DEPT OF ECOLOGY / HQ OLYMPIA WA 004

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 3 PAGE 1475 REPORT DATE 5/ 2/87

CONTROL # / EOF # / PTS P	SEC #	OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY	PERMIT DATE	NAME	SOURCE OF APPROPRIATION TRIBUTARY OF															
							USE TYPE	INST GI	C R S M U U	ANNUAL QA	C R S M U U	IRR AC	C S M U	PRO-VISOS	TIME OF USE	R R P I A C									
PTS P LOC. OF POD/POW (CHG C#)					PURPOSE OF USE																				
WATER RESOURCE INVENTORY AREA- 36																									
TOWNSHIP - 09 RANGE - 29 E																									
G3-06249C	29	06249	05894	04320	04/10/962		FRAN	07/13/962	PHILIP R F			WELL													
1 L2 BL2 PLAT OF RIVER HOMES					DOMESTIC SINGLE		C	10.0 G			5.6				AN										
					IRRIGATION		C	15.0 G			6.0			1.5	AN										
G3-06705C	28	06705	06306	04620	05/06/963	E	FRAN	08/30/963	KUFFEL C F			WELL													
1 L4 BL3 RIVER HOMES FRANK CO					DOMESTIC SINGLE		C	10.0 G			4.0				AEN										
G3-08785C	28	08785	08242	06344	06/09/967		FRAN	01/09/968	OLSON P L			WELL													
1 L5 BL3 RIVER HOMES ADD					DOMESTIC SINGLE		C	90.0 G 2			1.0				RN										
					IRRIGATION		C	90.0 G 2			6.0			1.5	RN	25									
G3-00195C	28	11972			06/24/972		FRAN	10/24/972	PHILLIP ROBERT F			WELLS													
2 L2 B3 PL RIVER HOMES IN GL2					DOMESTIC SINGLE		C	120.0 G 4			2.0	2			RMTN										
					STOCK WATERING		C	120.0 G 4			2.0	2			RMTN										
					REC & BEAUTIFICATION		C	120.0 G 4			9.0	2			RMTN	02011001									
					IRRIGATION		C	120.0 G 4			9.0	2		2.0	RMTN	02011001									
TOWNSHIP - 09 RANGE - 30 E																									
G3-23468P	04				08/06/974	S	FRAN	07/23/975	MINNAHAN JAMES			WELL													
1 SE4 SE4					DOMESTIC SINGLE		C	400.0 G 3			2.0	2			RIMS										
					STOCK WATERING		C	400.0 G 3			2.0	2			RIMS										
				X	IRRIGATION		C	400.0 G 3			209.0			40.0	RIMS	01011231									
G3-25178P	04				01/14/977	S	FRAN	10/23/985	CONN MUT LIFE INS			WELL													
1 NW4SE4SE4				X	IRRIGATION		C	1600.0 G			715.0			137.0	SRK	01011231									
G3-20246P	05				06/02/972	S	FRAN	10/16/985	BURLINGTON NORTHER			WELLS													
3 NE4SW4, NE4SE4, NE4NW4					IRRIGATION		C	2700.0 G			1290.0			320.0	SRM	02011031									
G3-26538I	05				04/18/980	S	FRAN	10/16/985	BURLINGTON NORTHER			WELL													
1 NE4NW4					IRRIGATION		C	900.0 G			260.0			70.0	SRM	02011031									
G3-27182B	05				12/30/981		FRAN	07/07/982	BURLINGTON NORTHER			WELLS													
3 NE4NW4/NE4SW4/NE4SE4					IRRIGATION		C	945.0 G			420.0			105.0	S MGIRBIKIS										
G3-07651CAL	06	07651A	07195A	06020A	06/10/965		FRAN	10/15/965	ROGERS WALLA WALLA			WELL													
1 GL-7					COMMERCIAL/INDUSTRIAL		C	850.0 G 2			1419.0	2											2 2 0		
					IRRIGATION		C	850.0 G 2			1419.0	2		50.0		IS							2 2 2		
G3-09196P	06	09196	06893		02/02/968		FRAN	01/29/969	ROGERS WALLA WALLA			WELL													
1 GL-7					COMMERCIAL/INDUSTRIAL		C	180.0 G 3			90.0				/										
					COMMERCIAL/INDUSTRIAL		C	180.0 G 3			200.0	2			/										
					IRRIGATION		C	180.0 G 3			200.0	2	S	50.0	/										
G3-00932C	06	12306			11/29/971		FRAN	12/23/973	TIPPETT ROBERT A			WELL													
1 NW4SE4SE4					IRRIGATION		C	1200.0 G			675.0			135.0	MR	C3011101									
G3-22846PAL	06				05/13/974		FRAN	12/21/976	ROGERS WALLA WALLA			WELLS													
2 SW4SW4					COMMERCIAL/INDUSTRIAL		C	1060.0 G 2			1709.0	2			RB4								2 2 0		
					IRRIGATION		C	1060.0 G 2			1709.0	2		162.0	RB4	01011231							2 2 2		
G3-24761P	06				01/24/976	S	FRAN	10/23/985	MINNEHAN JAMES F			WELL													
1 SE4SW4NW4					DOMESTIC SINGLE		C	30.0 G			1.0				SGK										
G3-20248P	07				06/02/972	S	FRAN	10/16/985	BURLINGTON NORTHER			WELLS													
2 SE4NE4, GL-2					IRRIGATION		C	2500.0 G			1000.0			2.5	MR	02012031									
G3-24674C	07				05/13/975		FRAN	05/18/976	AMERICAN FERT & CH			WELL													
1 SW4NE4					COMMERCIAL/INDUSTRIAL		C	100.0 G			5.0				RIB4										
G3-00931C	08	11460			12/17/970		FRAN	10/25/973	TIPPETT ROBERT A			WELL													
1 SW4SE4				X	IRRIGATION		C	1100.0 G			540.0			135.0	MR	C3011101									
G3-01043P	08	11650			03/01/971	S	FRAN	11/14/984	TIPPETT JANET C			WELLS													
2 NE4				X	IRRIGATION		C	1400.0 G			645.0			160.0	SRK	IS									
G3-27301P	08				04/02/983		FRAN	12/21/983	TIPPETT JANET C			WELL													
1 NE4NE4					DOMESTIC MULTIPLE		C	30.0 G			4.0				SRKB										
G3-24972C	09				05/04/976	S	FRAN	12/13/976	CONN MUT LIFE INS			WELL													
1 NE4SE4				X	IRRIGATION		C	1600.0 G			833.0			160.0	RIB4	01011231									

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 3 PAGE 1476 REPORT DATE 5/ 2/87

CONTROL # / SEC # / OLD APPL / OLD PERM / OLD CERT / DATE OF PRIORITY / S C A T C M / CNTY / PERMIT DATE / NAME / SOURCE OF APPROPRIATION / TRIBUTARY OF																							
ROF R / PTS P	LOC. OF POD/POW	(CHG CB)	PURPOSE OF USE	USE TYPE	INST QI	C R S M U U	ANNUAL QA	C R S M U U	IRR AC	C S M U	PRO-VISOS	TIME OF USE	R R R I A C
WATER RESOURCE INVENTORY AREA- 36													
TOWNSHIP - 09 RANGE - 38 E													
G3-25283P 09			03/21/977 S	FRAN	10/23/985	WORSHAM RONALD ET					WELL		
1 SW4NE4NW4			DOMESTIC SINGLE	C	1440.0	G 2	2.0				$K		
		X	IRRIGATION	C	1440.0	G 2	822.0		157.0		$K	01011231	
G3-25297P 09			03/21/977 S	FRAN	10/23/985	COX HAROLD S					WELL		
1 SW4NE4NW4			DOMESTIC SINGLE	C	1440.0	G 2	2.0				$K		
		X	IRRIGATION	C	1440.0	G 2	822.0		157.0		$K	01011231	
G3-25298P 09			03/21/977	FRAN	09/26/977	COX HAROLD S					WELL		
1 NW4 NW4			DOMESTIC SINGLE	C	100.0	G 3	2.0	2			RIB$		
			STOCK WATERING	C	100.0	G 3	2.0	2			RIB$		
		X	IRRIGATION	C	100.0	G 3	26.0		5.0		RIB$	01011231	
G3-22263P 10			12/17/973 S	FRAN	10/11/985	CONN MUT LIFE INS					WELL		
1 SW4NW4		X	IRRIGATION	C	1500.0	G	651.0		150.0		BM$	02151915	
G3-24973C 10			05/04/976	FRAN	12/15/976	CONN MUT LIFE INS					WELL		
1 NW4SE4		X	IRRIGATION	C	1600.0	G	649.0		155.0		$RK	01011231	
G3-25286P 10			03/21/977 S	FRAN	10/18/985	WORSHAM RONALD					WELL		
1 NW4 NE4			DOMESTIC SINGLE	C	1440.0	G 2	2.0				$RK		
		X	IRRIGATION	C	1440.0	G 2	626.0		157.0		$RK	01011231	
G3-20269C 15			06/02/972	FRAN	04/03/974	BURLINGTON NORTHER					WELLS		
2 NW4, SE4		X	IRRIGATION	C	4320.0	G	1940.0		480.0		BMR$	02011031	
G3-01546C 16 10813 10209			04/07/970	FRAN	03/16/971	WA ST D N R					WELLS		
5 S2NW4, E2SW4, N2SE4			DOMESTIC SINGLE	C	5200.0	G 3	2720.0	3			BM$		
			STOCK WATERING	C	5200.0	G 3	2720.0	3			BM$		
		X	IRRIGATION	C	5200.0	G 3	2720.0	3	520.0		BM$	IS	
G3-01348C 17 11112 10404			07/31/970	FRAN	09/23/971	COLUMBIA EAST					WELL		
1 SE4SE4		X	IRRIGATION	C	1200.0	G	681.4		130.0		QRM	03011101	
G3-20230C 17			06/02/972	FRAN	01/14/974	BURLINGTON NORTHER					WELL		
1 NE4NE4		X	IRRIGATION	C	1300.0	G	320.0		130.0		BMR	02011031	
G3-24589C 17			09/23/975	FRAN	05/06/976	DUGAS JAMES					WELL		
1 L-182 PL-COL E - SEJ			DOMESTIC MULTIPLE	C	50.0	G	61.0				RIB$		
G3-05073C 19 05073 04822			05730 12/02/953	FRAN	05/22/959	PASCO CITY OF					WELL		
1 G11			IRRIGATION	C	350.0	G	300.0		100.0		AE	IS	
G3-22216C 19			11/30/973	FRAN	04/12/976	PONTAROLO FRANK					WELL		
1 NE4SE4SW4			IRRIGATION	C	13.0	G	1.3		.3		B$	04010930	
G3*00847C 20 00847			00595 00/00/923	FRAN	/ /	NORTHERN PACIFIC R					WELL		
1 SW4NW4			HEAT EXCHANGE	C	400.0	G	100.0						
G3*00966C 20 00966 00901			00305 07/03/968	FRAN	01/06/969	SEATTLE HARDWARE C					WELL		
1 NE4NW4SW4			DOMESTIC SINGLE	C	166.0	G 3	50.0	2					
			COMMERCIAL/INDUSTRIAL	C	166.0	G 3	50.0	2					
		X	IRRIGATION	C	166.0	G 3	16.0		4.0			IS	
G3*04415C 20 04415 04235			02817 08/27/956	FRAN	03/03/957	CLOSE L H					WELL		
1 L1 CLOSE ADD PASCO			DOMESTIC SINGLE	C	15.0	G 2	4.0	2	U		AE		
		X	IRRIGATION	C	15.0	G 2	4.0	2		1.0	AE	IS	
G3*05132C 20 05132 04803			03391 03/04/959	FRAN	06/23/959	MOOD L W					WELL		
1 L2 CAROLE-LEE ADDN		X	IRRIGATION	C	15.0	G	8.0		2.0			IS	
G3*10640C 20 10640 10005			07614 02/10/970	FRAN	12/11/970	FANNING J W					WELL		
1 NW4 NW4 NE4			DOMESTIC SINGLE	C	70.0	G 2	2.0				QR		
		X	IRRIGATION	C	70.0	G 2	30.0		7.0		QR	02011101	
G3-01238C 20 10645 10298			02/25/970	FRAN	05/16/971	FRONTIER MACHINERY					WELL		
1 S2 4			COMMERCIAL/INDUSTRIAL	C	200.0	G 2	20.0				MR		
		X	IRRIGATION	C	200.0	G 2	65.0		12.5		MR	02010831	
G3-22467C 20			01/25/974	FRAN	05/20/974	PASCO CITY OF					WELL		
1 NE4 SW4			DOMESTIC SINGLE	C	140.0	G 2	2.0				R$W		
		X	IRRIGATION	C	140.0	G 2	55.4		13.0		R$W	03010930	
G3-01176C 21 10693 00976			03/11/970	FRAN	11/23/970	COLUMBIA EAST					WELL		
1 SW4NE4NW4		X	IRRIGATION	C	785.0	G	845.0		268.0		MR	03011101	

CONTROL # / PTS P	SEC / LOC. OF POD/POW	OLD APPL / (CHG CR)	OLD PERM / PURPOSE OF USE	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY / USE TYPE	PERMIT DATE / INST QI	C P S M U U	NAME / ANNUAL QA	C P S M U U	SOURCE OF APPROPRIATION TRIBUTARY OF / IRR AC	C S M U	PRO-VISCS	TIME OF USE	P P E I A C

WATER RESOURCE INVENTORY AREA- 36

TOWNSHIP - 09 RANGE - 30 E

G3#06909C 1 SW4NW4	22 06909	06481	05371	10/17/963	FRAN	01/31/964 DIETRICH J			WELL							
			X IRRIGATION		C	90.0 G		72.0			38.0		AE		IS	
G3-00247PAL 1 S2	22 10863A			05/11/970	FRAN	01/25/973 TOMLINSON DAIRY FA WELLS										
			DOMESTIC MULTIPLE		C	3500.0 G 3		3.0					MP			2 2 0
			STOCK WATERING		C	3500.0 G 3		334.0					MP		01011231	2 2 0
			X IRRIGATION		C	3500.0 G 3		1800.0			345.0		MP		01011231	2 2 2
G3-24724C 1 NE4SE4	22			01/09/976	FRAN	05/19/976 PALOMAREZ JOE			WELL							
			DOMESTIC SINGLE		C	120.0 G 3		2.0	2				$P			
			STOCK WATERING		C	120.0 G 3		2.0	2				$N			
			X IRRIGATION		C	120.0 G 3		126.0			26.0		$R		03011031	
G3-27049B 1 E2SW4NE4	22			03/19/981	FRAN	10/27/982 BURDEN RAY M			WELL							
			DOMESTIC MULTIPLE		C	300.0 G 2		13.4					PK			
			X IRRIGATION		C	300.0 G 2		70.0			20.3		PK		IS	
G3#06534C 1 NW4 SE4	27 06534	06403	04810	10/30/962	FRAN	11/22/963 USDI BPA			WELL							
			DOMESTIC SINGLE		C	230.0 G 2		114.6	2				AN			
			HEAT EXCHANGE		C	230.0 G 2		114.6	2				AN			
G3-00247PBL 1 N2NW4	27 10863B			03/11/970	FRAN	01/25/973 TOMLINSON DAIRY FA WELL										
			DOMESTIC MULTIPLE		C	3500.0 G 3		3.0					MP			2 2 0
			STOCK WATERING		C	3500.0 G 3		336.0					MP		01011231	2 2 0
		NO	X IRRIGATION		C	3500.0 G 3		1800.0			345.0		MP		01011231	2 2 2
G3-26863G 1 SE4SW4	27			02/24/981	FRAN	04/02/982 EASTERN WA ID LETT WELL										
			DOMESTIC SINGLE		C	70.0 G 2		1.0					PM$			
			X IRRIGATION		C	70.0 G 2		17.5			5.0		PM$		IS	
G3-27795C 1 SE4NW4	27			03/14/984	FRAN	03/29/985 WESTERN FARM SERV			WELL							
			DOMESTIC SINGLE		C	100.0 G 2		25.0	2				$PK			
			COMMERCIAL/INDUSTRIAL		C	100.0 G 2		25.0	2				$PK			
G3#09141C 1 NW4NW4SE4	28 09141	06497	06071	01/11/968	FRAN	05/28/968 BUNGARNER C F			WELL							
			DOMESTIC MULTIPLE		C	150.0 G		8.0					RNE			
G3-20149C 1 NW4 NE4 SE4	28			04/25/972	FRAN	08/27/973 SPOONER HENRY & JU WELL										
			DOMESTIC MULTIPLE		C	30.0 G 2		7.0					HMPTRN			
			X IRRIGATION		C	30.0 G 2		5.0			1.0				03011031	
G3-23624C 1 SE4 SE4	28			06/28/974	FRAN	06/25/975 REISINGER LESLIE H WELL										
			DOMESTIC SINGLE		C	35.0 G 3		2.0	2				R$			
			STOCK WATERING		C	35.0 G 3		2.0	2				R$			
			X IRRIGATION		C	35.0 G 3		8.56			2.0		R$		01011231	
G3-23626C 1 SE4 SE4	28			06/28/974	FRAN	06/25/975 REISINGER KENNETH WELL										
			DOMESTIC SINGLE		C	70.0 G 3		2.0	2				R$			
			STOCK WATERING		C	70.0 G 3		2.0	2				R$			
			X IRRIGATION		C	70.0 G 3		34.07			6.5		R$		01011231	
G3-24639C 1 SW4SE4	28			03/26/976	FRAN	09/08/976 MANN W F			WELL							
			X IRRIGATION		C	250.0 G		52.61			10.0		R$		IS	
G3-27343P 1 NW4SE4	28			07/01/982	FRAN	10/24/983 LAWRENCE ROBERT S			WELL							
			DOMESTIC MULTIPLE		C	110.0 G	S	23.5	S				$PK			
G3-27778B 1 LOT 1 BLK 12 EASN ADDN PASCO	28			02/27/984	FRAN	12/06/984 JOHNSON GENEVIE			WELL							
			DOMESTIC SINGLE		C	60.0 G 2		1.0					$PK			
			X IRRIGATION		C	60.0 G 2		22.0			5.5		$PK		IS	
G3-27864P 1 NW4SW4	28			07/31/984	FRAN	03/29/985 PASCO CITY OF			WELL							
			IRRIGATION		C	250.0 G		40.0			10.0		$PK		IS	
G3#08281C 1 L11 BL5 SYLVESTER PK ADD	29 08281	07739	05657	08/22/966	FRAN	01/17/967 LOURDES HOSPITAL			WELL							
			DOMESTIC MULTIPLE		C	50.0 G 2		10.0	2				A			
			X IRRIGATION		C	50.0 G 2		10.0	2		.5		A		IS	
G3-27943P 1 NE4SW4	30			01/14/985	FRAN	10/31/985 PASCO CITY OF			WELL							
			X IRRIGATION		C	250.0 G		40.0			10.0		$PK		IS	
G3-22727C 1 GL-7	31			03/06/974	FRAN	10/10/974 PASCO CITY OF			WELL							
			IRRIGATION		C	75.0 G		34.4			7.81		R$		03010930	
S3#17908C 1 GL8	31 17908	13179	11660	05/13/963	FRAN	09/17/963 PASCO CITY OF			COL R (WALLULA LK)						PACIFIC OCEAN	
			DOMESTIC MUNICIPAL		C	35.0 C	S	7000.0	S				SO			

06/08/87 15:16 DEPT OF ECOLOGY / HQ OLYMPIA WA 007

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 4 PAGE 2030 REPORT DATE 5/ 2/87

CONTROL # / BOP # / PTS #	SEC / T	OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY / USE TYPE	PERMIT DATE / INST QI	C R S M U U	ANNUAL QA	C P S M U U	IRR AC	C S M U	PRO-VISOS	TYME OF USE	R P E I A C	SOURCE OF APPROPRIATION TRIBUTARY OF
LOC. OF POD/POW (CHG CS)							PURPOSE OF USE										
WATER RESOURCE INVENTORY AREA- 31																	
TOWNSHIP - 09 RANGE - 25 E																	
1 NW4NE4							HIGHWAY	C	650.0 G 2								
							ENVIRONMENTAL QUALITY	C	650.0 G 2								
TOWNSHIP - 09 RANGE - 29 E																	
S4-01217C	28	20104	13102		02/15/967		BENT	02/29/968	BENTON CO PK-REC D UNN SPRS								COL R (WALL LK)
1 GL 7 & 8							FISH PROPAGATION	N	1.0 C 2								
							REC & BEAUTIFICATION	N	1.0 C 2								
S4-27941G	28				02/28/982		BENT	03/02/983	BENTON CO PK/REC D COL R (WALLULA LK)								PACIFIC OCEAN
1 SW4							IRRIGATION	C	.22 C		16.0		6.5	SW	04011031		
G4-26844N	31				06/25/980		BENT	01/08/981	KENNEWICK SCH DI # WELL								
1 NE4SW4							IRRIGATION	C	50.0 G		40.0		.1	RK	04011031		
G4-28825B	31				11/04/985		BENT	03/11/986	LOS CHURCH WELL								
1 NW4SW4							IRRIGATION	C	60.0 G		0.2		1.1	RK	04011031		
G4-27559P	32				07/14/981		BENT	09/03/982	KENNEWICK CITY OF WELL								
1 NE4NE4							DOMESTIC MULTIPLE	C	3500.0 G		5622.0			KR			
G4-26252C	33				06/01/979		BENT	06/22/980	KENNEWICK SCH DIS WELL								
1 NW4SW4							IRRIGATION	C	50.0 G		20.0		5.0	RK	04011031		
G4K04539C	35	04539	04372	03897	02/27/957		BENT	11/19/957	KENNEWICK CITY OF INFILTRATION TR								
2 GL1							DOMESTIC MUNICIPAL	C	13500.0 G		5600.0						
S4-25963C	35				05/06/975		BENT	08/26/975	BENTON CO PKS&REC COL R (WALLULA LK)								PACIFIC OCEAN
1 SL 1							IRRIGATION	C	.5 C		70.0		13.3	S	04011031		
G3+20016C	36				03/09/972		BENT	04/16/973	WA ST HIGHWAY COMM WELL								
1 NW4SW4							IRRIGATION	C	120.0 G		75.0		14.3	R	04011031		
TOWNSHIP - 09 RANGE - 30 E																	
G4K01390C	31	01390	01248	01805	02/23/950		BENT	06/23/950	KENNEWICK CITY OF WELLS/INFILTRATION TR								
5 GL-2							DOMESTIC MUNICIPAL	C	4950.0 G		6800.0						
S4-25479C	31				06/10/977		BENT	12/05/978	KENNEWICK CITY OF COL R (WALLULA LK)								PACIFIC OCEAN
1 SW4SW4							DOMESTIC MUNICIPAL	C	55.7 C 2		10400.0		S		S		
							DOMESTIC MUNICIPAL	C	55.7 C 2		5200.0				S		

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 3 PAGE 1478 REPORT DATE 5/ 2/87

CONTROL # / PTS P LOC. OF POD/POW	SEC / OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY / PERMIT DATE / USE TYPE	NAME / INST QI	C R S M U U	ANNUAL QA	C R S M U U	IRR AC	C S M U	PRO-VISOS	TIME OF USE	P R R I A C	SOURCE OF APPROPRIATION TRIBUTARY OF
PURPOSE OF USE (CHG CR)																
WATER RESOURCE INVENTORY AREA 36																
TOWNSHIP - 09 RANGE - 30 E																
G3#10704C 1 SW4 SE4	33 10704	10192	07205	03/12/970		FRAN 03/04/971 PASCO PORT OF				WELL						
DOMESTIC MUNICIPAL						C 375.0 G 2			196.0				HP			
X IRRIGATION						C 375.0 G 2			13.0		3.0		HP	01011231		
G3-01349CAL 1 SE4NE4	33 11111A	10403A		07/31/970 S		FRAN 09/23/971 COLUMBIA EAST				WELL						
X IRRIGATION						C 4500.0 G			2588.0		495.0		PM	03011101	2 2 2	
G3-24316C 1 SW4NE4NW4	33			01/24/973		FRAN / / STORY JOEL G				WELL						
STOCK WATERING.						C 750.0 G 2			1.0				PMI			
X IRRIGATION						C 750.0 G 2			382.0		73.0		PMI	01011231		
G3-01349CBL 1 SW4NE4	34 11111B	10403B		07/31/970 S		FRAN 09/23/971 COLUMBIA EAST				WELL						
MO X IRRIGATION						C 4500.0 G			2588.0		495.0		PM	03011101	2 2 2	
G3-20662C 1 S2 SW4 SE4	34			12/21/972		FRAN 01/25/974 HILL CECIL C				WELL						
DOMESTIC MULTIPLE						C 750.0 G 2			116.0				PMI			
X IRRIGATION						C 750.0 G 2			81.0		20.0		PMI	01011133		
G3-00673C 1 SE4 SE4	35 12071			07/13/971		WALL 06/05/973 USCE				WELL						
DOMESTIC GENERAL						C 200.0 G 2			1.0				HPP			
X IRRIGATION						C 200.0 G 2			37.0		100.0		HPP	03011001		
TOWNSHIP - 10 RANGE - 28 E																
G3#01021C 1 G14	02 01021	01302	00310	10/25/948		FRAN 08/11/950 USBR				WELL						
DOMESTIC SINGLE						C 30.0 G			20.0				A			
G3-27465B 1 NE4SE4	12			03/04/983		FRAN 11/07/983 YOUNG JOHN R				WELL						
DOMESTIC SINGLE						C 106.0 G 2			1.0				MIPK			
IRRIGATION						C 108.0 G 2			42.0		12.0		MIPK	IS		
G3-26153G 1 L-3 B-1 RIVERRIDGE ESTATES	13			01/27/979		FRAN 07/05/979 LUNDRIGAN MARION H				WELL						
DOMESTIC SINGLE						C 20.0 G 3			2.0	2			RIB4			
STOCK WATERING						C 20.0 G 3			2.0	2			RIB4			
IRRIGATION						C 20.0 G 3			2.0		.75		RIB4	01011231		
G3-27506P 1 LOT A RIVER RIDGE ESTATES	13			04/07/983		FRAN 01/06/984 SANDERSON GEORGE				WELL						
DOMESTIC MULTIPLE						C 100.0 G			29.0				SPK			
TOWNSHIP - 10 RANGE - 29 E																
G3-25356P 3 SE4SW4 & NE4SE4	01			04/06/977 S		FRAN 10/18/985 OAKDELL EGG FARMS				WELLS						
DOMESTIC MULTIPLE						C 150.0 G 2			6.0				SPK			
COMMERCIAL/INDUSTRIAL						C 150.0 G 2			2.0				SPK			
G3-26209P 1 TO 108 BL 28 C 8 P	06			04/04/979		FRAN 11/20/979 BETA GROUP/BOLAND				WELL						
DOMESTIC MULTIPLE						C 80.0 G			22.0				PPM			
G3#03730C 1 NW4NW4	10 03730	03550	02300	08/10/954 E		FRAN 01/14/955 USBR				WELL						
DOMESTIC GENERAL						C 18.0 G			28.6							
G3#00286C 1 SW4SE4	19 00286	00276	00753	06/22/946		FRAN 10/22/946 USBR				WELL						
DOMESTIC MULTIPLE						C 100.0 G			100.0							
G3-27907IAL 4 S2SE4	23			10/03/984		FRAN 10/31/985 BURLINGTON NORTHER				WELLS						
IRRIGATION						C 4500.0 G			1800.0		450.0		MIPK	IS	2 2 2	
G3-27251P 1 SE4SE4	24			04/09/982		FRAN 03/04/983 BURLINGTON NORTHER				WELL						
COMMERCIAL/INDUSTRIAL						C 50.0 G			20.0				MIPK			
G3-27907IBL 1 S2NW4	24			10/03/984		FRAN 10/31/985 BURLINGTON NORTHER				WELL						
IRRIGATION						C 4500.0 G			1800.0		450.0		MIPK	IS	2 2 2	
G3-00823P 2 SE4SW4NE4	25 12302			02/23/972 S		FRAN 10/23/985 FOREGRO CO/BURLING				WELL						
COMMERCIAL/INDUSTRIAL						C 35.0 G			14.0				MP			
G3-20237P 1 SW4SW4	25			06/02/972 S		FRAN 10/16/985 BURLINGTON NORTHER				WELL						
IRRIGATION						C 600.0 G			280.0		70.0		SPM	02011031		
G3-24528PAL 1 NE4	27			05/03/973 S		FRAN 07/10/985 BURLINGTON NORTHER				WELL						
IRRIGATION						C 6993.0 G			2220.0		3.33		PBCM?	IS	2 2 2	
G3-01063C 2 NW4,E2SE4SW4	28 06396	06200		01/29/963		FRAN 04/12/963 BROGOITTI WILLIAM				WELLS						
IRRIGATION						C 1750.0 G			800.0		180.0		B	IS		
G3-26021B	29			07/27/978		FRAN 08/30/979 JOB NORBERT				WELL						

REFERENCE 10

EXHIBIT 5–14

FORM NO 9–1904– A

SITE NO. _____

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by _____ Date _____

Check One ____ English ____ Metric Units

GENERAL SITE DATA (0)

Site Ident No (5–19) | RG Number R=0 * | Transaction T= A D M V * (add, delete, modify, verified)

Site-Type 2= C D H I M P T W * (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well, well shaft) | Data Reliability 3= C U L M * (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4= *

Project No. 5= * | District 6= * | State 7= * | County (or town) _____ 8= *

Latitude 9= * (deg min sec) | Longitude 10= * (deg min sec) | Lat-Long Accuracy 11= S F T M * (sec, 5 sec, 10 sec, Min)

Local Number 12= * | Land Net Loc. 13= S T R * (1/4 1/4 1/4 section, township, range, merid)

Location Map 14= * | Scale 15= *

Altitude 16= * | Method of Measurement 17= A L M * (altimeter, level, map) | Accuracy 18= *

Topo Setting 19= D C E F H K L Ø P S T U V W * (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) | Hydrologic Unit (OWDC) 20= *

Date of First Construction/Completion 21= / / * (month day year) | Use of Site 23= A D E G H Ø M P R S T U W X Z * (anode, drain, geothermal, seismic, heat, reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24= A B C D E F H I M N P R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25= * | Tertiary Use of Water 26= * | Depth of Hole 27= * | Depth of Well 28= * | Source of Depth Data ① 29= *

Water Level 30= * | Date Measured 31= / / * (month day year) | Source ① 33= *

Method of Measurement 34= A C E G H L M R S T V Z * (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37= D F G H Ø P R S T V X Z * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water affects, other)

Source of Geohydrologic Data ① 36= * | Pump Used 35= * (no) | Measuring Point 266= * | Measuring Point Date 267= / / * (month day year)

OWNER IDENTIFICATION (1)

R=158 * | T= A D M * (add, delete, modify) | Date of Ownership 159 # / / * (month day year)

Name: Last 161= * | First 162= * | Middle Initial 163= *

OTHER SITE IDENTIFICATION NUMBERS (1)

R=189 * | T= A D M * (add, delete, modify) | Ident 190 # * | Assigner 191= *

New Card Same R & T | Ident 190 # * | Assigner 191= *

SITE VISIT DATA (1)

R=186 * | T= A D M * (add, delete, modify) | Date of Visit 187# / / * (month day year) | Name of Person 188= *

FIELD WATER QUALITY MEASUREMENTS (1)

R=192 * | T= A D M * (add, delete, modify) | Date 193 # / / * (month day year) | Geohydrologic Unit 195 # *

New Card Same R thru 195

Temperature 196# 0 0 0 1 0 * | Degrees C 197= *

Conductance 196# 0 0 0 9 5 * | µ Mhos 197= *

Other (STORET) Parameter 196# * | Value 197= *

Other (STORET) Parameter 196# * | Value 197= *

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z
(reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

USGS well records 9/30 - 21, 22, 27, 28

```
ENTER COMMAND >RUN MARCIA

LOCAL NO.          =09N/30E-21C01
LATITUDE           =461508
LONGITUDE          =1190402
DATA LOCATION      =C
WELL DEPTH         =  125.00
WELL USE           =W
NO.1 WATER USE     =I
NO.2 WATER USE     =
DATE DRILLED       =09/  /1970
OPENING TOP        =   78.00
OPENING BOTTOM     =  118.00
OPENING DIAMETER   = 16.00
OPENING TOP        =  120.00
OPENING BOTTOM     =  125.00
OPENING DIAMETER   = 16.00
OWNER'S NAME       =COLUMBIA E      ,PARTNERSHIP
DATE OWNED         =09/24/1970

LOCAL NO.          =09N/30E-22E01
LATITUDE           =461504
LONGITUDE          =1190310
DATA LOCATION      =C
WELL DEPTH         =  110.00
WELL USE           = ?
X NO.1 WATER USE   =
NO.2 WATER USE     =
DATE DRILLED       =  /  /1962
OPENING TOP        =    0.00
OPENING BOTTOM     =    0.00
OPENING DIAMETER   =  0.00 ?
OWNER'S NAME       =DIETRICH        ,JOHN
DATE OWNED         =  /  /

LOCAL NO.          =09N/30E-22J01
LATITUDE           =461447
LONGITUDE          =1190208
DATA LOCATION      =C
WELL DEPTH         =  142.00
WELL USE           =W
NO.1 WATER USE     =I
NO.2 WATER USE     =
DATE DRILLED       =02/24/1976
OPENING TOP        =  132.00
OPENING BOTTOM     =  142.00
OPENING DIAMETER   = 12.00
OWNER'S NAME       =PALOMAREZ       ,J
DATE OWNED         =02/24/1976

LOCAL NO.          =09N/30E-22J02
LATITUDE           =461443
LONGITUDE          =1190216
DATA LOCATION      =C
WELL DEPTH         =  128.00
WELL USE           =W
NO.1 WATER USE     =N
NO.2 WATER USE     =
DATE DRILLED       =04/20/1972
```

Landfill well ?

OPENING TOP = 90.00
OPENING BOTTOM = 128.00
OPENING DIAMETER = 16.00
OWNER'S NAME =TOMLINSON ,DAIRY FARMS
DATE OWNED =05/08/1972

LOCAL NO. =09N/30E-22K01 *
LATITUDE =461439
LONGITUDE =1190216
DATA LOCATION =
WELL DEPTH = 138.40
WELL USE =W
NO.1 WATER USE =H
NO.2 WATER USE =
DATE DRILLED = 8/ 7/1979
OPENING TOP = 133.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 6.00
OWNER'S NAME =PALMAREZ ,JOE
DATE OWNED = 8/ 8/1979

LOCAL NO. =09N/30E-22L01 * Including one irr. well
LATITUDE =461443
LONGITUDE =1190216
DATA LOCATION =C
WELL DEPTH = 145.00
WELL USE =W
NO.1 WATER USE =I
NO.2 WATER USE =
DATE DRILLED =06/ /1974
OPENING TOP = 90.00
OPENING BOTTOM = 140.00
OPENING DIAMETER = 16.00
OWNER'S NAME =TOMLINSON ,DAIRY FARMS
DATE OWNED =07/ /1974

LOCAL NO. =09N/30E-22R01 *
LATITUDE =461433
LONGITUDE =1190210
DATA LOCATION =
WELL DEPTH = 139.00
WELL USE =W
NO.1 WATER USE =H
NO.2 WATER USE =
DATE DRILLED = 3/22/1983
OPENING TOP = 139.00 ?
OPENING BOTTOM = 0.00
OPENING DIAMETER = 6.00
OWNER'S NAME =MARQUEZ ,GILBERT
DATE OWNED = 3/24/1983

LOCAL NO. =09N/30E-23M01
LATITUDE =461449
LONGITUDE =1190148
DATA LOCATION =C
WELL DEPTH = 157.00
WELL USE =W
NO.1 WATER USE =I
NO.2 WATER USE =
DATE DRILLED =08/ /1982

OPENING TOP = 0.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 0.00
OWNER'S NAME =USBR ,
DATE OWNED =03/24/1955

LOCAL NO. =09N/30E-27F01
LATITUDE =461405
LONGITUDE =1190250
DATA LOCATION =
WELL DEPTH = 120.00
WELL USE =W
X NO.1 WATER USE =N
NO.2 WATER USE =
DATE DRILLED =11/ 9/1982
OPENING TOP = 115.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 8.00
OWNER'S NAME =WESTERN FARM ,SERVICE
DATE OWNED =12/28/1982

LOCAL NO. =09N/30E-27G01
LATITUDE =461405
LONGITUDE =1190221
DATA LOCATION =C
WELL DEPTH = 98.00
WELL USE =W
NO.1 WATER USE =I
NO.2 WATER USE =
DATE DRILLED =09/26/1975
OPENING TOP = 83.00
OPENING BOTTOM = 88.00
OPENING DIAMETER = 16.00
OPENING TOP = 88.00
OPENING BOTTOM = 93.00
OPENING DIAMETER = 16.00
OPENING TOP = 93.00
OPENING BOTTOM = 98.00
OPENING DIAMETER = 16.00
OWNER'S NAME =ALDERSON ,
DATE OWNED =11/13/1975

LOCAL NO. =09N/30E-27H01 X
LATITUDE =461407
LONGITUDE =1190216
DATA LOCATION =
WELL DEPTH = 93.00
WELL USE =W
NO.1 WATER USE =H
NO.2 WATER USE =
DATE DRILLED = 3/17/1977
OPENING TOP = 88.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 6.00
OWNER'S NAME =CREEK ,KEN
DATE OWNED = 3/22/1977
OWNER'S NAME =JOHNSON&BUXBAUM,--
DATE OWNED = 2/24/1986

LOCAL NO. =09N/30E-27K01

9/30-27K1

LATITUDE =461355
LONGITUDE =1190229
DATA LOCATION =C
WELL DEPTH = 121.00
WELL USE =
NO.1 WATER USE = ?
X NO.2 WATER USE =
DATE DRILLED =06/ /1951
OPENING TOP = 0.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 0.00
OWNER'S NAME =USDI Interior?,
DATE OWNED =06/ /1951

LOCAL NO. =09N/30E-28H01
LATITUDE =461408
LONGITUDE =1190327
DATA LOCATION =
WELL DEPTH = 97.60
WELL USE =U
NO.1 WATER USE =U — New owner — uses 1 or in future ??
X NO.2 WATER USE =
DATE DRILLED = 6/19/1980
OPENING TOP = 92.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 6.00
OWNER'S NAME =KEYES & SCANLAN,--
DATE OWNED = 6/19/1980
OWNER'S NAME =YENNE ,AL (New)
DATE OWNED = 2/27/1986

LOCAL NO. =09N/30E-28K01 *
LATITUDE =461358
LONGITUDE =1190343
DATA LOCATION =C
WELL DEPTH = 110.00
WELL USE =W
NO.1 WATER USE =H
NO.2 WATER USE =
DATE DRILLED =10/ /1961
OPENING TOP = 0.00
OPENING BOTTOM = 0.00
OPENING DIAMETER = 0.00 ?
OWNER'S NAME =BUMGARNER ,CLINTON
DATE OWNED =10/ /1961

LOCAL NO. =09N/30E-28M01
LATITUDE =461355
LONGITUDE =1190420
DATA LOCATION =C
WELL DEPTH = 70.00
WELL USE =W
X NO.1 WATER USE =I
NO.2 WATER USE =
DATE DRILLED =04/09/1985
OPENING TOP = 57.00
OPENING BOTTOM = 70.00
OPENING DIAMETER = 8.00
OWNER'S NAME =PASCO ,CITY OF
DATE OWNED =04/09/1985

Wells Within About One Mile of Disposal Site

USGS designation	Owner	Use
9/30-22E1	John Dieirich (disposal site)	Irrigation of cover cro
9/30-16A1	Charlie Cox	Irrigation of potato fa (first season of use)
9/30-16F1	US Bur. Reclamation	Observation well
9/30-16K1	Charlie Cox	Irrigation of potato fa (first season of use)
9/30-16M1	Charlie Cox	Irrigation of potato fa (first season of use)
9/30-21F1	Columbia East	Irrigation well-unused
9/30-28H1	Devon Dall	Domestic, stock-water a irrigation well
9/30-28H2	Howard Craven	Well never used - no development of land
9/30-28H3	Rada Construction	Well used only intermitt in making of septic tan dry wells, etc.
9/30-28J1	Welch Garage wrecking yard	Little used
9/30-28J2	Spooner Motel	Commercial use for domestic and sanitary wa
9/30-28J3	Cunningham	Domestic well
9/30-28K1	Rasmussen	Domestic well
9/30-28K2 and 3	Bonnie Brae Motel and Bumgarner home	Commercial and domestic wells
9/30-27B1	Dave Whitehead	Stock water
9/30-22Q1	Alderson	Domestic well
9/30-23N1	US Bur Reclamation	Observation well
9/30-26D1	US Bur Reclamation	Observation well
9/30-22J1	Tomlinson Dairy	commercial use in dairy
9/30-22K1	Tomlinson Dairy	not in use. Too low capacity.
9/30-27K1	Bonneville Power Administration	Sanitary and local irrigation

REFERENCE 11

9/30-22E1

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 6903

File Original and First Copy with the Division of Water Resources
Second Copy — Owner's Copy
Third Copy — Driller's Copy

Landfill Drinking Water Well

Permit No. ....

(1) OWNER:

Name [illegible]

Address [illegible]

(2) LOCATION OF WELL:

County [illegible] Owner's number, if any—

[illegible] ¼ NW ¼ Section [illegible] T. 9 R. [illegible] W.M.

Bearing and distance from section or subdivision corner

[illegible] West [illegible]

[illegible]

1088' [illegible] 38'E of W¼ Cor 22

(3) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☒

(6) CASING INSTALLED: Threaded ☐ Welded ☐

8" Diam. from ____ ft. to 110 ft. Gage ____

____" Diam. from ____ ft. to ____ ft. Gage ____

____" Diam. from ____ ft. to ____ ft. Gage ____

(7) PERFORATIONS: Perforated? ☐ Yes ☒ No

Type of perforator used

SIZE of perforations ____ in. by ____ in.

____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

(8) SCREENS: Well screen installed ☐ Yes ☐ No

Manufacturer's Name ____

Type ____ Model No. ____

Diam. ____ Slot size ____ Set from ____ ft. to ____ ft.

Diam. ____ Slot size ____ Set from ____ ft. to ____ ft.

(9) CONSTRUCTION:

Was well gravel packed? ☐ Yes ☐ No Size of gravel: ____

Gravel placed from ____ ft. to ____ ft.

Was a surface seal provided? ☐ Yes ☐ No To what depth? ____ ft.

Material used in seal—

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? Depth of strata

Method of sealing strata off

(10) WATER LEVELS:

Static level ft. below land surface Date

Artesian pressure lbs. per square inch Date

Water is controlled by ____ (Cap, valve, etc.)

(11) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level

Date of test ____

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG: Diameter of well 8 inches.

Depth drilled 110 ft. Depth of completed well ft.

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand & silt	0	80
Coarse Gravel	80	84
Coarse Sand	84	105
Gravel	105	110
Application for 16.0 gpm		

Work started 19 . Completed 19

(13) PUMP:

Manufacturer's Name Fairbanks Morse

Type: Double Deep Well Turb. H.P. 7½

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ____ (Person, firm, or corporation) (Type or print)

Address ____

[Signed] ____ (Well Driller)

License No. ____ Date ____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

Permit No. ....

(1) OWNER: Name Elmer Rada Address [illegible]

(2) LOCATION OF WELL: County Franklin E½ SW¼ NE¼ ¼ Sec 28 T. 9 N., R. 30 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)....

New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☒ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 110 ft. Depth of completed well 110 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 105 ft. to 110 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☒ No ☐
Type of perforator used Mills
SIZE of perforations 3/8 in. by 2 in.
60 perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☒ No ☐
Manufacturer's Name Cook
Type Stainless Steel Model No.
Diam. 8 Slot size 30 from 105 ft. to 110 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☐ No ☒ To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 65 ft. below top of well Date 6/14/74
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 30 gal./min. with 0 ft. drawdown after 2½ hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Did not Drill well, only perforated and installed screen. And cleaned sand out of the bottom.		
NO Record of Original Well. 1-3-80 RCLane		

Work started 6/5, 1974. Completed 6/14, 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B & H Drilling (Person, firm, or corporation) (Type or print)

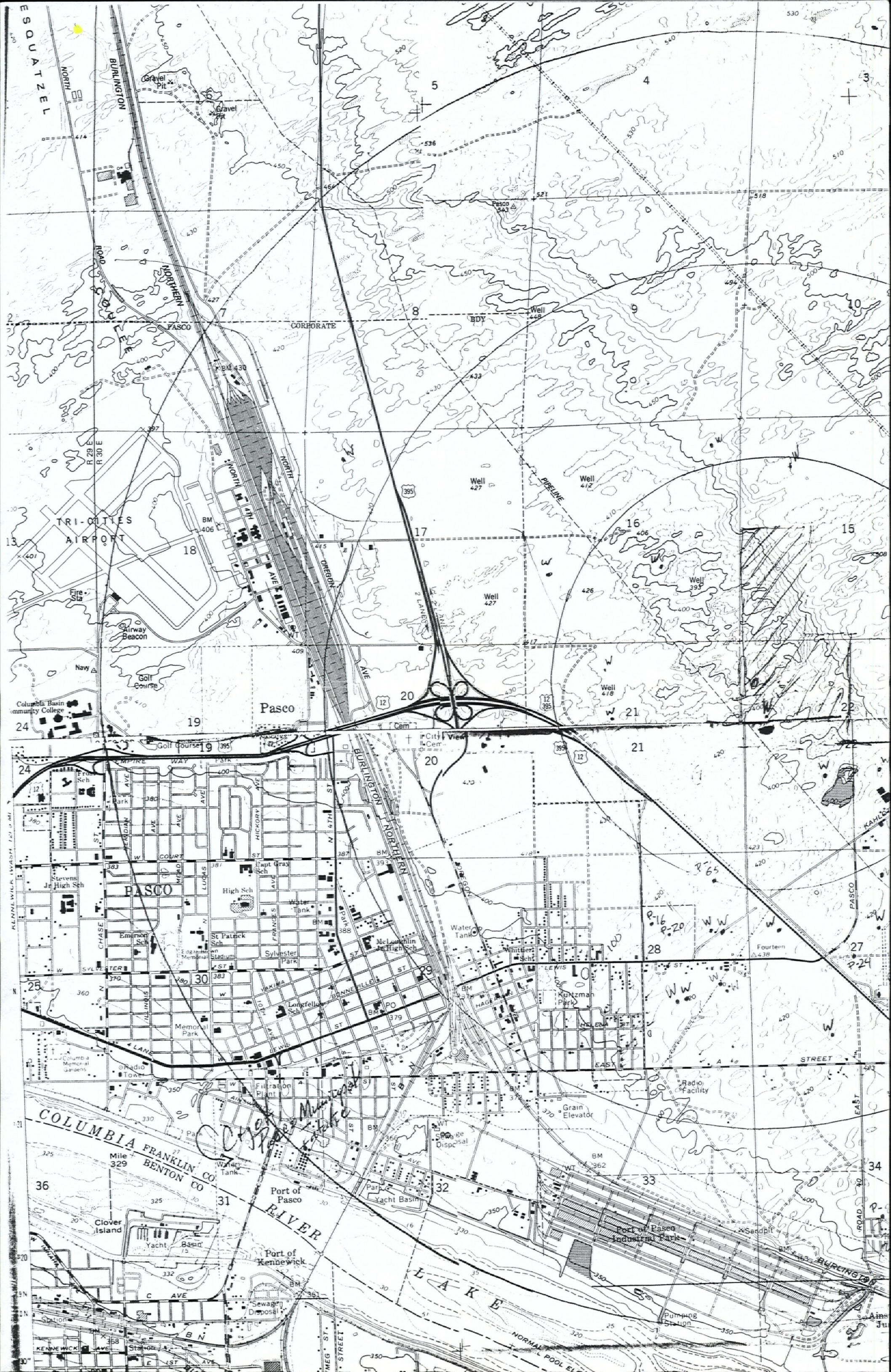
Address Rt. 3 Box 3365A - Kennewick, Wash. 993[illegible]

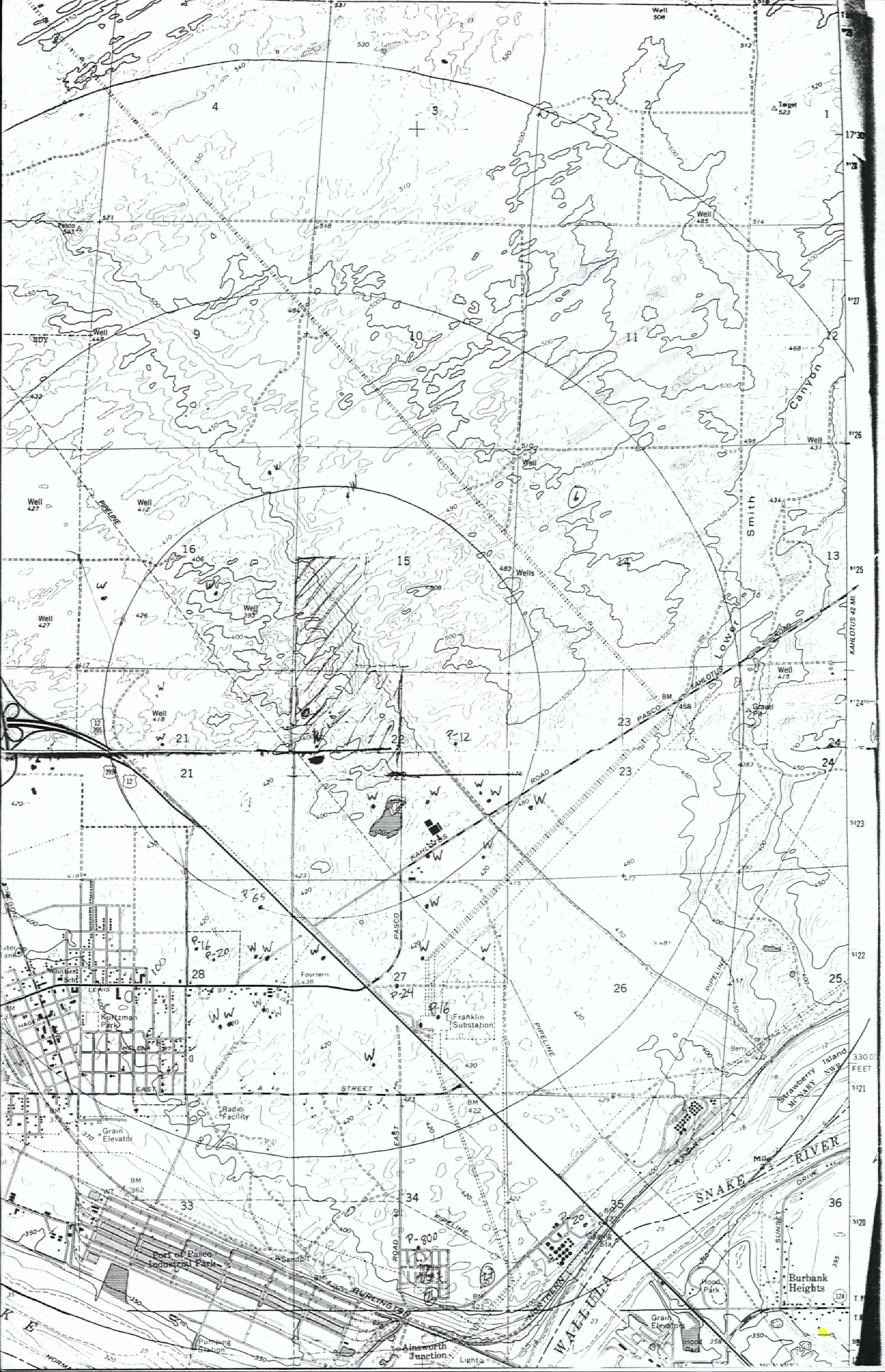
[Signed] [illegible] (Well Driller)

License No. 0046 Date 6/14, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).


ESQUATZEL
NORTH
BURLINGTON
Gravel Pit
Gravel Pit
NORTHERN
ROAD
PASCO
CORPORATE
BDY
Pasco 543
Well 448
BM 430
NORTH
4TH
AVE
OREGON
AVE
PIPELINE
Well 427
Well 412
Well 427
Well 395
Well 418
TRI-CITIES AIRPORT
Fire Sta
Airway Beacon
Navy
Golf Course
Columbia Basin Community College
Pasco
Golf Course
EMPIRE WAY
Park
Frost Sch
Park
MERIDIAN
AVE
HICKORY
ST
N 4TH
BURLINGTON
NORTHERN
COURT
Stevens Jr High Sch
PASCO
High Sch
Capt Gray Sch
Water Tank
Emerson Sch
St Patrick Sch
Edgar Bin Memorial Stadium
Sylvester Park
McLoughlin Jr High Sch
Water Tank
Whittier Sch
Fourteen 438
Longfellow Sch
Memorial Park
Kuntzman Park
Columbia Memorial Gardens
Radio Tower
Filtration Plant
Radio Facility
Grain Elevator
Sewage Disposal
COLUMBIA
FRANKLIN CO
BENTON CO
Mile 329
Water Tank
Port of Pasco
Yacht Basin
Clover Island
Yacht Basin
Port of Kennewick
Port of Pasco Industrial Park
Sandpit
RIVER
LAKE
Sewage Disposal
Pumping Station
NORMAL POOL ELEV
KENNEWICK AVE
Station
BN
STREET
EAST
STREET
Ainsworth Jun


Well
508
Target
523
Pasco
543
Well
485
BDY
Well
448
Well
427
Well
412
PIPELINE
Well
427
Well
393
Well
418
Well
415
Wells
Well
431
Well
Smith
Canyon
Lower
KAHLOTUS 42 MI.
KAHLOTUS
PASCO
ROAD
BM
458
Gravel
Pit
KAHLOTUS
PASCO
ROAD
PIPELINE
Fourteen
438
Franklin
Substation
Kuntzman
Park
Whittier
Sch
LEWIS
HAGEMAN
HELENA
EAST
STREET
Radio
Facility
Grain
Elevator
BM
422
Strawberry
Island
NWR
McNARY
Berry
SNAKE
RIVER
Mile
SUNSET
DRIVE
Port of Pasco
Industrial Park
Sandpit
BURLINGTON
NORTHERN
WALLULA
Hood
Park
Burbank
Heights
Grain
Elevators
Pumping
Station
Ainsworth
Junction
Light
330 00
FEET
17'30
5'28
5'27
5'26
5'25
5'24
5'23
5'22
5'21
5'20
T. 9
T. 8
P-12
P-65
P-16
P-20
P-24
P-16
P-20
P-800
P-20

REFERENCE 14

ecology and environment, inc.
108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537
International Specialists in the Environmental Sciences

CONTACT REPORT

Agency/ Organization: Washington Dept. of Ecology - Eastern District Office

Address: Spokane, WA

Contact: Cindy Christian

Phone: 509-456-2926

FROM: Charles F. Pitz

TO:

SUBJ: Water Rights Information in Vicinity of Pasco Landfill

DATE: 5/28/87

CC:

Phone call to get information on acreage irrigated by some selected wells in a 3 mile radius of the Pasco Landfill (from 5/87 Water Rights Computer Listing)

9/30 - 16 - 520 acres
9/30 - 21C - 268 acres
9/30 - 22K - 26 acres
9/30 - 22L - 345 acres
9/30 - 23M - 315 acres
9/30 - 28M - 10 acres

Chas F. Pitz

recycled paper

REFERENCE 15

E P A PROJECT

ECOLOGY AND ENVIRONMENT, INC.

CONTACT REPORT: REGION X-SEATTLE

TO: Tomlinson Farms, Inc

PERSON CONTACTED: Jean Tomlinson PHONE: (509) 545-4896

CONTACTED BY: Gloria Skinner

SUBJECT: Ownership + Origin of Tomlinson Dairy Pond

DATE: 5/29/87, 10:17 a.m

CC:

COMMENTS:

Pond is a man-made lagoon to collect waste farm water which is recycled as irrigation.

Owned by: Tomlinson Farms, Inc.
Gilbert + Jean Tomlinson, Owners
3682 Selph Landing Rd.
Pasco, WA 99301

Gloria Skinner

REFERENCE 16

E P A PROJECT

ECOLOGY AND ENVIRONMENT, INC.

CONTACT REPORT: REGION X-SEATTLE

TO: Franklin County Fire Marshall

PERSON CONTACTED: Don Carter PHONE: (509) 545-3586

CONTACTED BY: Gloria Skinner

SUBJECT: Re: Fire Hazard and Explosive Potential at Rosco Sanitary Landfill and Resource Recovery Corporation.

DATE: ~~6-5-87~~ 6-1-87

CC:

COMMENTS:

Material of botanical origin is burned in a controlled manner above ground. There is no other source for above ground fire hazard.

To his knowledge, the buried material presents no explosive potential.

Gloria Skinner

Ref #18

RECORD OF COMMUNICATION	☒ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above)	
TO: Richard Heinemeyer Lakeview Mobile Home Park	FROM: David Bennett NPL Coord-R10	DATE 7/17/87 TIME 9:30 am

SUBJECT
Location of Wells

SUMMARY OF COMMUNICATION
All four wells are located in the trailer park + are interconnected prior to distribution. Trailer park is north of Sacajawea State Park.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

INFORMATION COPIES
TO: Pasco Landfill File

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 5300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.